Heads and faces, and how to study them: a manual of phrenology and physiognomy for the people / by Nelson Sizer and H.S. Drayton.

Contributors

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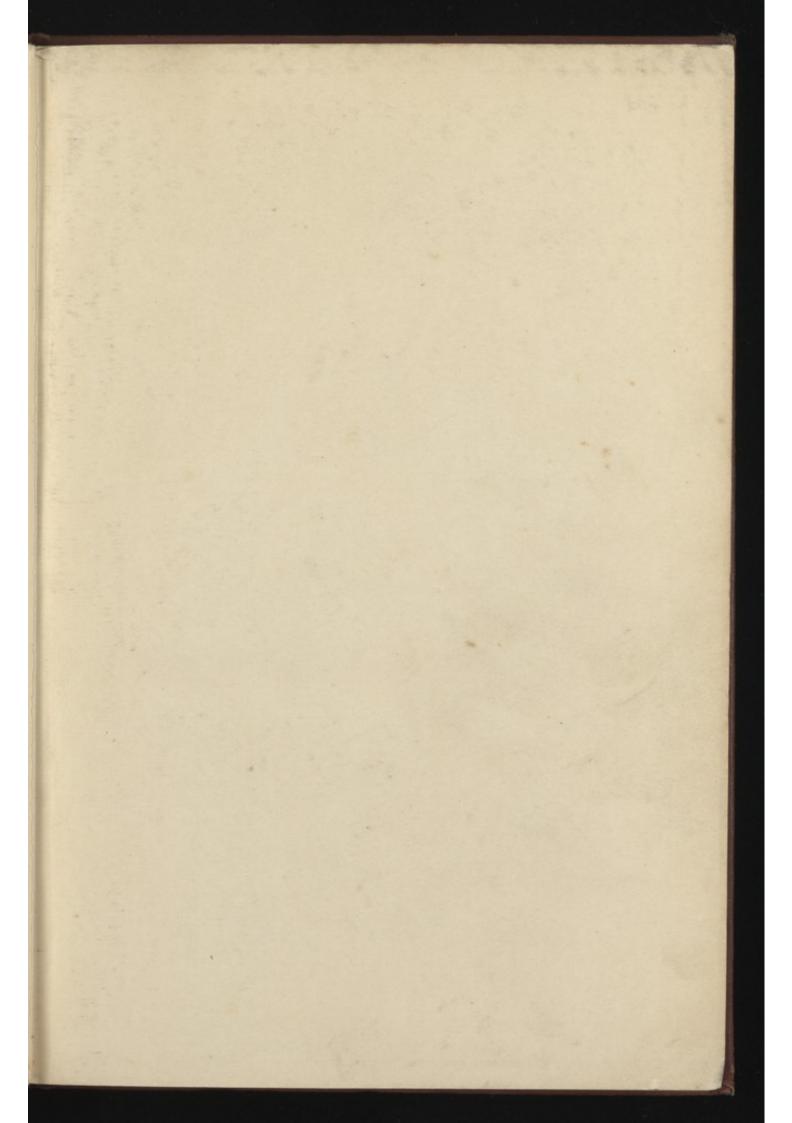


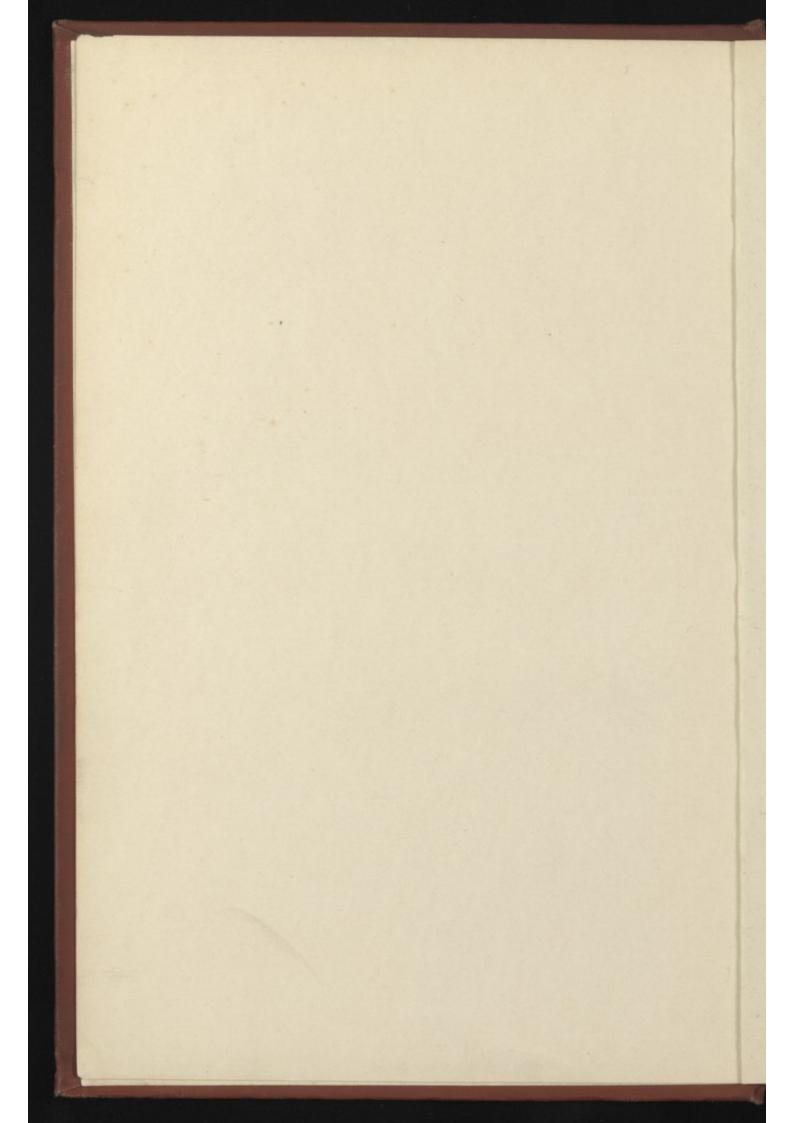
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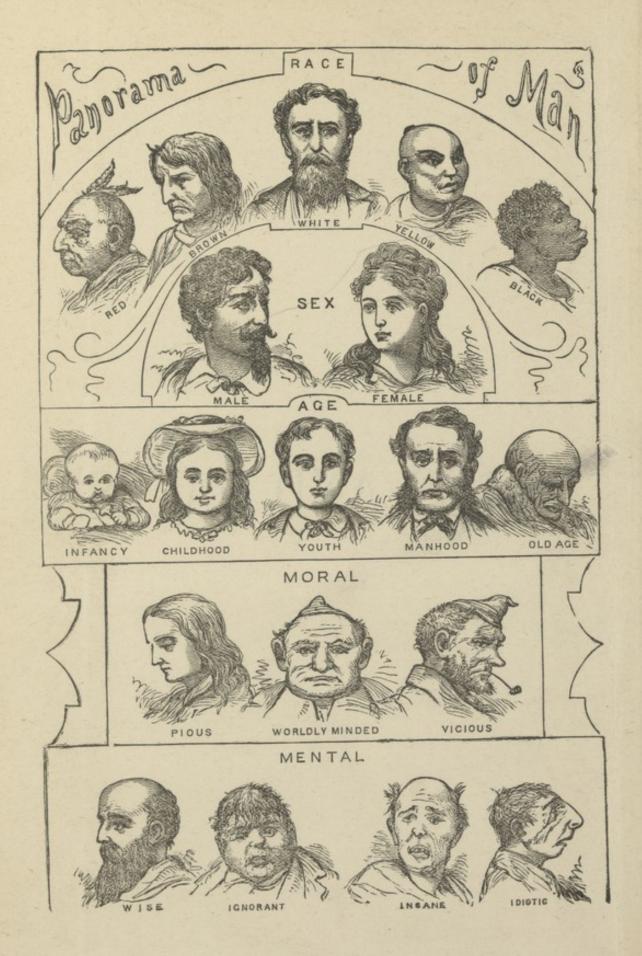
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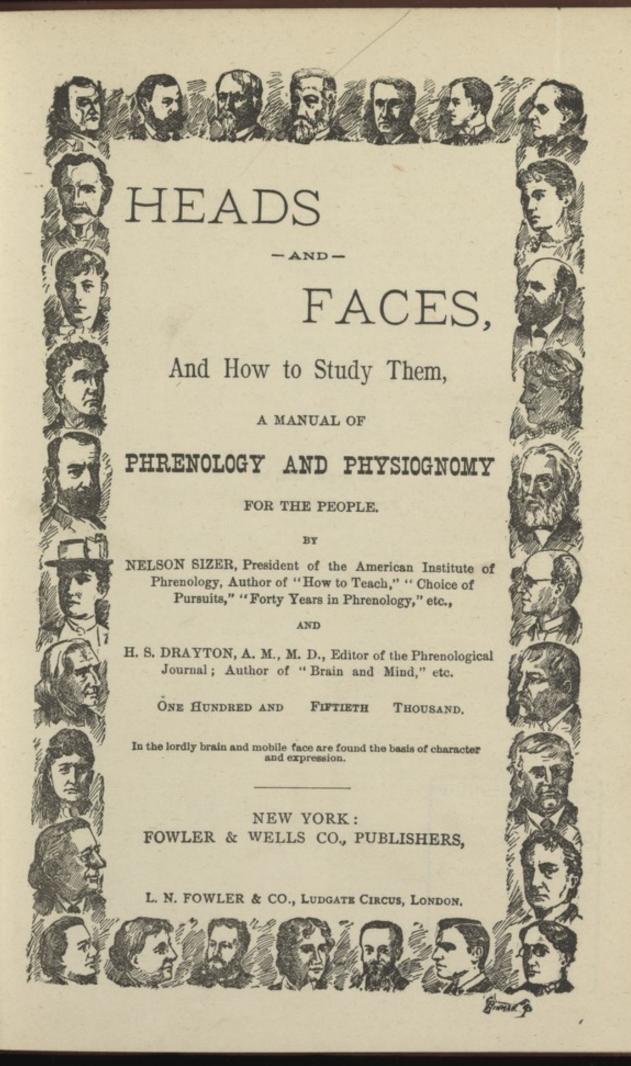






HEADS AND FACES.





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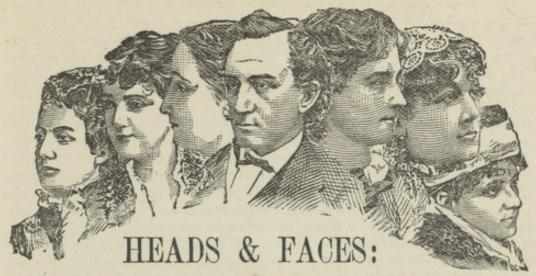
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HOW TO STUDY THEM.

OF THE FACE.

The study of character and its indications is as old as human inquiry, and therefore the rendency of mind in this direction must arise from a special mental trait. The changing expression of the face is everywhere regarded as a mirror in which the passing thought or present emotion can be seen. If one be long afflicted by grief or blessed by joy, wearied by trouble or vexed with care, shadowed with melancholy or excited by wit, inspired by faith or led by conscience, inflated by pride or subjected to its domination, the emotions awakened by these different states and revealed in the face, may become so far fixed as to defy concealment. But let one's circumstances be suddenly changed; let grief be turned to joy, and trouble, care, and vexation will fade from the countenance and leave scarcely a trace.

Then there are expressions of face inherited from joyous or sorrowing parentage. In the same family one child absorbs the sunshine of its mother's joy, and it glows from its face for a lifetime; another, if circumstances have changed, will wear the tear marks, or the expression of bitterness that darkened the mother's life; and no doubt the brain as well as the face will bear a similar and even more permanent record.

The very attitudes and motions assume, by long habit, an expression of the inner life. One accustomed to the exercise of authority gets a stiffer spine, a more ex-

alted head, and firmer lines of the face, and the brain conforms in development and activity to the conditions that have become habitual.

For centuries the face has been studied, and attempts have been made to reduce the face to a science with greater or less approaches to success. People will study the face and its expression and be influenced by it without having any science or rules for it, or any means of explaining it. Yet their impressions will be correct.

OF THE HEAD.

Near the close of the last century the physiology of the brain became the subject of special investigation by an eminent physician of Germany, Dr. Gall, and he claimed that he had discovered signs of character in the brain, that it can be safely studied as the basis of character, and that whatever the face or attitudes or motions may reveal, the impulse comes from the brain. His mode of investigation has acquired the name of Phrenology.

For nearly a hundred years the term Phrenology has been before the world, and has been understood to relate to the laws and activities of the human mind, and that in some way it is related to the brain as its organ. A few have studied Phrenology and accepted it heartily; others have made it a topic for contempt or ridicule, and though thousands of the general public have little or no knowledge on the subject, other thousands have more or less information respecting it, and,

so far as they understand it, they believe and accept it.

The object now in view is to simplify and restate the matter, and to make it so clear and plain that even those who have had little opportunity for extended culture shall understand and appreciate it.

The term Phrenology, derived from two Greek words phren and logos, signifies "Discourse on the Mind"; as a system of mental philosophy it aims to explain the faculties of thought and feeling by studying the organization of the brain during life. If this be true, it is a most important fact; if it be false, the quicker the public learn it the better. If true, teachers, preachers, legislators, and administrators of justice, and particularly parents, should understand it, and by applying its principles derive the benefit which they must afford; and if it be false, that part of the world which represents intelligence, morality, civil government, and domestic training cannot be too soon in ascertaining it.

The time has gone by when a shrug of the shoulders, or a shake of the head, a repulsive wave of the hand, or the bigot's argument, can set aside a subject that claims to make clear the most important fact that can attract the world of thought. If the claims of phrenology be true; if a living character can be studied by the organization of its brain; if a mother can know as she fondles her darling whether there lurk fires in his mental organization that shall make her trouble and procure disaster for the darling of her heart; if in the brain can be read the talents which shall distinguish their owners and bless the world; if traits can be seen before the tenth year that shall indicate the orator, or the engineer, the writer, the philosopher, the historian, the teacher, the artist, or the divine, ought not the public to understand it in order that the generations that follow shall be early guided in moral and intellectual culture, and in the management and training of the propensities, so that each child of the future shall be made the most of, and thus the race be lifted into usefulness, virtue and honor?

It would not startle an experienced phrenologist to be told that one skilled in this
subject would be able to read the character of a class of boys or girls in a school
coming from as many different families as
there were individuals, and correctly estimate the qualities of each for scholarship,
and the tendencies in each toward good or
ill behavior, recognizing the strong and
weak points in the dispositions and motives through the force by which their characters are brought out.

All teachers know that when they are introduced to a strange school, they may look over the pupils and have a preference for one because of his bright look, and a feeling of repulsion toward one who looks perhaps uninviting; but that teacher knows that he can not read those boys and girls so as to know, without considerable acquaintance, which has a good memory of history and fact, and which will excel in arithmetic, grammar, or philosophy; that he can not feel any certainty in respect to the behavior or tendencies to morality or mischief that each member of his class will be likely to manifest.

Mothers know that in their own families there are sometimes as many characters as there are children; one will be turbulent, headstrong and proud; another sulky, quarrelsome and tricky; another will be the soul of frankness and honor, integrity, and virtue; while another will be peevish, vacillating and wayward, through weakness, perhaps; and when a stranger comes into her house and applies phrenology practically and is enabled to read these traits in her children as she understands them, and not only this, but to predict for ten years to come what the organization of each is likely to produce in the way of character and talent, that mother may well express astonishment.

The question now is, shall that mother be put in possession of the simple rules and principles on which such estimate can be made? Will she take a little pains to read and think so as to master measurably the problem of human life as revealed in her children as well as in others around her with whom she comes in contact?

It is not wise, though, perhaps without Phrenology, that is the only means of learning, to wait for experience to reveal the truth in respect to the faculties.

farmer in the State of Georgia who shot a rabbit, which ran into the hollow stump of a tree; he reached into the hole to pull out the wounded rabbit, and a rattlesnake bit his hand, resulting in his death the next day. That was an experiment, and many a child has in his organization both the rattlesnake and the rabbit, and blind experiments may serve to develop, painfully, qualities that need watchful care, guidance, and restraint.

OUTLINE OF PHRENOLOGY.

A brief outline of the doctrines of Phrenology may here be made:

First. The brain is the organ or instrument of the mind, just as the eye is the instrument of sight. Every trait of character, every talent, propensity, or sentiment has its organ.

There is a general belief that somehow the intellect stands related to the brain, and when an injury to any part of that viscus occurs, the newspapers will say that the intellect was, or was not, affected by the injury. But a doubt exists whether the brain is also the seat of the feelings, the propensities, and sentiments. To say that some injury of the brain did not affect the intellect, is about as definite as it would be to say that a man was injured in the head, but that his eye-sight, or his smelling power, or his hearing was not affected, and therefore eye-sight and hearing do not necessarily belong to the head; but Phrenology teaches that every sentiment, every element of taste and aversion, of hope and fear, of love and hatred, as well as the intellectual faculties and memory, have their special seats in some part of the brain.

Second. The mind is not a single power, but has many faculties, some of which may be stronger or weaker than the others in the same person; from which arises the great variety of character and talent among mankind.

Some learned men of the present day claim that the mind is a unit, and that its whole power is employed in each mental operation; that it is all devoted to music The newspapers recently told us of a for the time being, or to mechanism, to mathematics, to history, to language, to kindness or anger, alternately; but observation shows that a half-dozen different faculties may be in active operation at the same time, acting toward different objects and for different purposes; hence,

Third. Each faculty or propensity of the mind has its special organ in the brain.

Fourth. Size of brain, the quality being good, is the true measure of its power. The brain, when deficient in size or low in quality or health, is always connected with a low degree of mental power. Even among the lower animals the brain is found to be large and complicated in proportion to the variety and strength of their faculties.

Fifth. There are several groups of faculties, and each of these groups is represented by organs located together in the brain. The organs of the Intellect are situated in the forehead in what are called the anterior lobes of the brain; those of the Social nature in the back head, or posterior lobes of the brain; those of -Passion, appetite, and self-preservation, in the side head, or middle lobes of the brain; while those organs which manifest Aspiration, pride, ambition, are in the crown of the head, and those of Sentiment, sympathy, morality, and religion in the top head.

Sixth. Each faculty of the mind, each sentiment and propensity, has its own organs, as each function of the body has its specific organ. If this were not so, each person would manifest the same amount of talent or power on all subjects, such as arithmetic, language, music, mechanism, the power of reasoning, love of property, courage, prudence or pride. Everybody knows that persons rarely ever show equal talent on all topics, and that a man may be a genius at one thing and find it impossible, by long training, to become even tolerably successful in other things. If the mind were a single power and the brain a

single organ this would not be the case. The senses of seeing, hearing, tasting, smelling, are not always possessed by each person in an equal degree of perfection, these several powers being dependent on different organs, and each related to a special part of the brain; so the mental faculties and dispositions are alike unequal in a given person, owing to the greater strength or weakness of their respective organs in the brain; hence some people represent partial genius, others partial idiocy or partial insanity, and these facts are explained and sustained only by the phrenological theory of the mind.

Seventh. The Quality and Temperament of the organization determine the degree of vigor, activity, and endurance of the mental powers.

Temperament is indicated by external signs, including the build, complexion and texture. Men recognize different qualities in their judgment of horses, cattle, and other stock, although they do not use the terms we apply to mankind. Men who deal in timber know that the quality of different kinds of wood has infinite variety; the spongy palmetto of the South, the soft texture of the willow, or the coarse character of the hemlock in contrast with oak, hickory, ebony, lignum vitæ, showing that contrasts of temperament or quality in wood are various. To a critical phrenologist and physiognomist as wide a range of quality may be found in the Speed, activity, strength, human race. endurance in birds and dogs and horses are recognized and understood. The trim, compact game-chicken that weighs five pounds finds little difficulty in vanquishing the clumsy, coarse and tall Shanghai or Chittagong that may turn the scales at fourteen pounds; and temperament is a term which, rightly understood, explains the reason of these peculiarities.

The sturdy team-horse, with his broad back and stalwart limbs, will take a monstrous load without weariness, if he may but may make his mile in less than two this subject.

minutes and ten seconds on the race track. Horse-dealers readily recognize in horses while standing at a distance, facts that reveal speed, endurance, and hardihood, or weakness and tenderness. That which people do not know awakens superstitions wonder. Men learn that great differences in timber, horses, cattle, and dogs exist, and are not surprised that men can understand them. They will permit us to say that temperament or quality can also be as readily understood in respect to the human race.

This subject of Temperament will be more fully discussed and illustrated further on.

BUMPOLOGY EXPLAINED AND EX-PLODED.

The first difficulty the phrenologist meets among the public, is, that he is supposed to study the brain by means of certains "bumps" on the cranium; that he looks for hills and hollows, and that his opinions are based on the presence or deficiency of these bumps. Intelligent and even college-bred men, distinguished in the professions, will come to the phrenologist and say in all sincerity, "You must have an exceedingly delicate touch to be able to discover the bumps or the organs and their development on a head as smooth as mine is." Perhaps it may be bald, and by that time ought to have known better about the teachings of Phrenology than to have made such an observation.

If, however, a man with a bald head is seen to have towering elevations in different parts of the head; if some great section as large as a man's hand is elevated considerably above the general outline, people can see that in such a head one might study "bumps," but on a head that is as smooth as a billiard-ball, nine-tenths of the general public to-day think that it is impossible for them, and it must be for phrenologist, to determine whether organs are large or small. Until this error can be rubbed out of the public thought and go slowly enough; while another horse of the true principle of phrenological examidifferent temperament would be wearied nation established, no progress can be and soon broken down with such a load, made in the education of the people on

For half a century lecturers and writers he remarks: "Eightly. That the brain is on the subject of Phrenology have been for "bumps" to ascertain the development of organs any more than we look for "bumps" to ascertain that one apple is larger than another, or that the hindwheel of a wagon is larger than the forewheel. The relative proportions of a head are estimated by measuring the distances from the spinal axis located at the top of the spinal cord to the points on the surface of the head where the organs are located; on the same principle that a wheel is large in proportion to the length of the spokes from the hub to the rim; or an apple is large in proportion to the distance or length of its fibres from the core to the surface.

Within a year, a gentleman who is a graduate of a college and intelligent in the direction to which he has devoted his time and study, replied, when this statement was made to him, in terms more emphatic than polite, "That is a new dodge. You used to talk about bumps." We quietly took from our library a book published in Washington city in 1837, by Dr. Thos. Sewall, Professor of Physiology and Anatomy, in the frontispiece of which there are three outlines of the human head, with the organs defined according to Phrenology. On one of the heads there is a representation of an instrument with bulbs placed in the openings of the ears, and an arc running from these over the head, and on this arc a sliding index which points to the medulla oblongata or capital of the spinal cord, and no matter how it may be slipped around, or which way the arc may be swung, like the bail of a pail, that index, marked off with inches, sliding in and out, was arranged to indicate the exact distance of any given organ or portion of the head from the centre of the brain. The instrument is called the "Craniometer." Dr. Sewall was lecturing against Phrenology, hence his statement in reference to the teachings of Phrenology will not be considered too favorable. In stating the claims of our science in reference to its principles,

composed of at least thirty-four organs or trying to convince the world that in the pairs of organs, all commencing at the examination of the head we do not look medulla oblonga or top of the spinal marrow and radiating to the surface of the brain."

> This fact shows that the estimation of the size of the phrenological organs by the radial distance from the brain centre to the periphery is not a "new dodge."

> To make the matter plain to the reader, we may say, if a line be drawn through the head from the opening of one ear to that of the other it will pass through the medulla oblongata, that central ganglion at the base in which the fibres from cerebrum and cerebellum converge. brain is developed by fibres running from this central point to the surface of the head, and volume of brain is dependent upon the length of these fibres, and consequently an organ is large in proportion to the distance from the brain centre to the surface where it is located. See Figs. 1 and 2.



Fig. 1. A. Medulla Oblongata, where the Fibers start. B. Spinal Cord. C. Cerebellum.

Some heads are two inches wider from side to side than others which measure the same distance from forehead to back head, yet on the surface show no bumps or little irregularities; some eggs are short and chunky, others are elongated. Let

the reader look into the hats of different the brain centre, and they are astonished to look long to find that some hats are Doctors, therefore, who object to Phres.

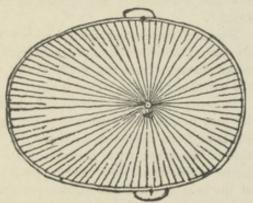


Fig. 2. Base of Brain, showing length of Fibres from the centre to the circumference.

most round. Some heads are two inches longer than others and yet could wear the same size hat; some heads are irregular in form, showing a difference in the length of fibre lines in different parts; some are very broad and short, and others long and thin. One head is large at the base and low at the top; another is developed mainly in front of the ears, showing that the man has talent but little force. The head of another is mainly back of the ears, and is short and light in front; in this we would find little intelligence, but an excess of passion, selfishness, and base, animal instinct. Another head is high at the top and well expanded, and narrow at the base.

All these different forms and many more can be found by observation, and all this might occur without showing what might be called a bump. From this view of the subject, some physicians repeat the observations which they have heard from their old preceptors that skulls are not always of the same thickness in different places, and wall, and a sound scientific basis of Phrensometimes there seems to be a hollow on ology is established. the inside of the skull and no corresponding protuberance, and that the little hills the reader will be intensified by reference and hollows that may be found on the to Fig. 3, which shows three heads all surface of the skull were the only basis drawn to a scale from the opening of the of phrenological investigation.

men and study the form of the oval where when the explanation is made to them, and it embraces the head, and he will not have are apt to say, "That is a new dodge." long and narrow, and some broad or al- ology and try to throw discredit upon it, as they teach students in medical colleges, or as they go among the people, do but show their ignorance of the principles that Phrenology has maintained since the days of Dr. Gall, and which are older than the century. But the reader may ask, "How did this idea get abroad?" "Where did the bump theory come from?" Let us suppose some bald-headed man to have had excessive Firmness or Self-esteem, and that some phrenological examiner directed attention to the tremendous development of the organ in question, the observers probably called it a "bump" because it looked like a bump in consequence of the deficiency of the surrounding regions. And suppose also that all the organs in another head were of equal development, as large as the first man's Firmness or Self-esteem; if the phrenologist said that Firmness and Self-esteem were large in this second case the public saw no bump and was bewildered.

> Some people to-day quote to us Sir William Hamilton's criticism, which is more than fifty years old, in regard to the difference in the thickness of different parts of the skull, as being a settler against the possibility that Phrenology can be true.

The last quarter of an inch on the surface of the head, or the want of it, is not the means of determining the strength of the given phrenological organs; therefore, that old, stale, falsely-based objection has no weight; judging as we do by the length of the lines from the central point to the surface, the bump objection goes to the

The force of the idea now presented to ear, and each representing human heads. When men talk like that, we know that The central outline is drawn from the cast they have not been instructed in regard to of an idiot, showing that all the lines from this old doctrine of the fibrous length from the ear to the surface of the skull are short.

head of a man who murdered his brother; the lines running upward and backward are long, and the head was also broad from ear

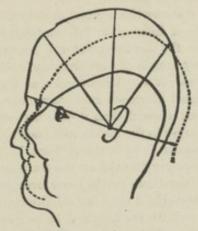


Fig. 3. Idiot, Malefactor, and Poet.

to ear, but the lines running upward and forward are short, and all the intellectual and moral organs were relatively deficient, while the region of passion and propensity was large. The larger head represents an English poet, and the development there is mainly upward and forward toward the intellectual and moral region.

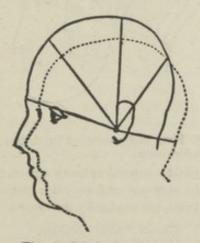


Fig. 4. Criminal and Moral.

In the engraving, Fig. 4, there is a marked difference between the two heads: there are no bumps visible in the outline of either, but the length of line from the opening of the ear in each case shows a great difference; the dotted line shows a weak intellectual and moral development, and a very strong development of the propensities; the head is broad from side to lect, if he be a dull fellow. If the head

The next, shown by the dotted line, is the side, corresponding with the deficient front and top head. The other is a good moral and intellectual character.

> In Figs. 5 and 6 we have the outlines of two heads; 5 shows a back view; the dotted line represents the broad, low head of Patch, who slyly murdered his friend

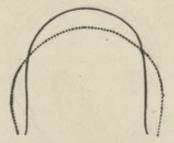


Fig. 5. Back view of heads. Narrow Head. Broad Head. Patch.—Murderer, Gosse.—Liberal Giver. for his money. See how the side head protrudes as compared with the other outline, which represents Gosse, a man who gave away two fortunes through liberality

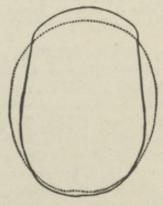


Fig. 6. Top view of Patch and Gosse.

and sympathy. Fig. 6 shows a view of Fig. 5, as seen from above, as would be represented in the inside of the hats of the two men. The head of Patch is short in front compared with that of Gosse, while the side head is shown to be broad, hence the lines from the brain centre vary in length in these two men, thus indicating their diversity of character.

Yet people do not generally look at heads in the light which is here presented. If a man has what they call a high forehead, they do not stop to see how far from the opening of the ear it is; they wonder that he has not a good intelrounds up at the top, they do not stop to consider how high it is from the opening of the ear. We trust that their views will hereafter he modified.

Fig. 7 shows the outline of four heads drawn to the same face, the ear being the

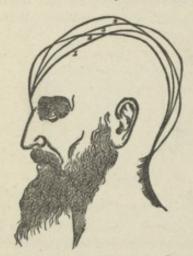


Fig. 7. Four heads of different form. No. 1. Alexander VI., Immoral and Animal.

2. Zeno, the Philosopher. " 3. Philip II., of Spain, Tyrant.

4. Father Oberlin, Christian Philan-

focus from which the radial lines extend; they are accurately drawn to the same scale. The four figures are represented by numbers. No. 1 shows the outline of Alexander VI., once Pope at Rome; it is low in front and at the top, high at the crown, and very great in the backward development. No. 2 shows great squareness and fulness in the forehead, in the region of the intellect; the top head is fairly but not largely developed, and the back head is shown by the inner line of all. That represents the philosopher Zeno. No. 3, to whom the face belongs, is Phillip II., of Spain, showing a practical intellect. immense Firmness and Self-esteem, and moderate social development; the tyranny of his character is well illustrated by the outline of his head. No. 4, Father Oberlin, the Christian missionary and philanthropist, shows the predominance in the intellectual and religious region, but not a very strong social development.

so much alike we can not see how it is possible to detect such differences as you describe"; but they do not estimate heads on phrenological principles or they would see difference enough.

Fig. 8 shows the normal growth of the head from infancy to full maturity, and viewing the development and growth as being by length of fibre from the opening of the ear, it will be noticed that the infant's head increases relatively more forward and upward than it does backward; being larger in the middle and back region proportionately than it is in front, because the life-power located in the central section of the brain needs to be stronger in a new-born child than the intellectual and moral regions are required to be; hence a young mother is apt to think her babe has such a little, contracted, sloping forehead, she is afraid it will be an idiot; but

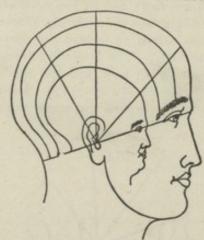


Fig. 8. Form and growth of head, from Infancy to Manhood.

as the child's mental activity comes into play, the anterior and superior portions of the brain are gradually developed.

BRAIN AND MIND.

Prior to the days of Gall and Spurzheim, those who studied Mind in the abstract or metaphysically, seemed to have no idea that the brain has any relation to mental manifestation. They knew that if a man were hit upon the head he might be knocked senseless or paralyzed, but they A practical phrenologist in a single did not regard the brain as the organ or week will meet with heads as varied as instrument of mental manifestation. That these, yet people often say "Heads seem is to say, they did not understand that

the brain, according to its size and quality, determines the strength, activity, and characteristics of the mental forces. Aside from the physiologists, even to-day the metaphysicians do not attribute to the brain much more than intellectual qualities; the emotions, passions, sentiments, tastes, are supposed by the majority of these to be affections of the soul apart from, and not related to the brain.

Phrenology on the other hand recognizes brain as the organ of the Mind in all its forces, in just such a sense as that the eye is the organ of vision, or the stomach the organ of digestion, or that muscle is the instrument of motion. It does not follow that if the brain be the organ of the Mind that mind is material, because it employs physical organs for its development. The brain is simply the material instrument which brings mind and matter into co-operation. All primary motion originates in the brain; all sensation is carried to the brain as the seat of consciousness. The nerves of the external senses carry to the brain the impressions which they receive, where they are recorded, brought to the consciousness of the individual, and estimated. The eye, the ear, the nerves of smelling, tasting, and general sensation, furnish the mind through the brain with the knowledge of external things. If these nerves are impaired or deranged in their action, the functions of seeing, hearing, tasting, smelling, and feeling, are impaired accordingly, because the channel from the outer world to the brain is cut off. A blow upon the head paralyzes the whole body temporarily, and a pressure upon the brain will suspend intellectual and moral consciousness indefinitely, according to the amount and character of the pressure. Medical works abound in cases of suspension of mental power from pressure of the brain.

One of the most interesting is recorded in the Toledo, Ohio, Medical and Surgical Journal for September, 1877. It is related by Proctor Thayer, M. D., professor of surgery in Cleveland, Ohio, Medical College.

her husband then in jail in Cleveland. The history of the case was that sixteen years previously they were residing in Indiana and engaged in farming. While the man was plowing, the team became unmanageable and ran away. In his efforts to stop them he was thrown violently against a fence, his head striking one of the rails. He was taken up insensible, and after recovery from the concussion he was found to be suffering from mania which became continuous, and characterized at times by the most dreadful violence. After a varied experience of confinement in the asylum for the insane and the jail, owing to the greater or less degree of his violence, he was at last brought to Cleveland and confined. His wife desired that his head might be trephined at the spot as nearly as could be determined where the head received the injury. This she had often requested of others, and now insisted on it with much earnestness, whatever the consequences might be. Thoroughly incredulous, the doctor visited the patient and found him a raving maniac. His violence had made him a terror; it had been found necessary to construct an iron cell, the upper part of which consisted of a grating. He raved continually in his desire to destroy imaginary enemies. It was decided to operate on the following morning. At the appointed time when everything was ready, the sheriff opened the door, and seizing the maniac threw him on the floor. He was tied, and chloroform administered. A hole was bored (perhaps an inch in diameter) in the head at the point where the blow causing the injury had been given. The operation being complete, he was untied. As the effects of the chloroform passed off he lay quietly, and as he opened his eyes, they were observed to have lost their former wild expression. Directions being given to apply cold water to the head, and place a cot in the cell with attendants to control him if necessary, he remarked calmly, 'I shan't harm them.' The instructions were observed, and on the following morning all were surprised "He was requested by a lady to visit to learn that the patient had continued to and baby. When the doctor entered the cell the patient inquired where he was, and why he was there. When the matter was explained he expressed the greatest astonishment, and to the inquiries as to what he knew about it he replied that it seemed to him that he had just awakened, and that yesterday he was plowing; that his mare and colt got to cutting up, ran away, and that was all he knew in regard to it. The doctor asked him if he would like to see the wife and child he had inquired after, to which he quietly replied, 'Oh, she can not come, she has just had a baby.' The wife and baby, the latter now a girl of sixteen years, had been waiting in an adjoining room, and were now introduced to him; he did not know either of them. The wife had changed in appearance and the baby had become a woman. In utter amazement he exclaimed, 'My God, what does this mean?' recovery was complete, the whole sixteen years remaining a blank to him, and all knowledge of his injury a mystery. His mental derangement never returned. He pursued his occupation of farming for seven years, and then died from pneumonia."

the mental aberration that followed should another his business or profession. have led the surgeon to employ the process of trephining soon after the injury, Sept. 1st, 1804, and died March 2, 1840, and thus have saved all those terrible was a prodigy in arithmetical calculation. years of insanity. This case shows that a At six years of age he manifested such pressure upon the brain may suspend powers of computation as to astonish the normal consciousness for many years, learned world. Questions in multiplicaand that the pressure may be so little as tion of five places of figures, reduction, not to damage the bodily health or to rule of three, compound fractions, and produce a lesion of the brain. The mental obtaining factors of large numbers were

It is well known to surgeons that if a lous quickness. portion of the skull be removed by injury, propounded to him on his visit at Harvard the consciousness of the patient may be College were the following: How many suspended by a gentle pressure upon the days and hours in 1,811 years? His anliterally "held under the thumb," and onds in eleven years? The answer, given

be rational, and had asked for his wife restored at pleasure to its full activity.

PLURALITY OF THE MENTAL FACUL-TIES.

Phrenology maintains that the entire mind is not employed in the production of each mental function, that the mind acts by means of many distinct faculties, even as a musical instrument has many distinct notes, any one of which may be too high or too low, or the string may be broken. If the mind were a distinct power, and there were no separate faculties, it would follow that the mind would be equally capable on every topic; the person would succeed as well in mechanism as in music, as well in reasoning as in memory, in arithmetic as in judgment of colors or memory of places and of historic facts. Each person should have as much power in courage, prudence, love, ambition, pride, steadfastness, conscience, sympathy, as he had in any other quality.

If the mind were but a single power, there would be no such thing as partial genius. But in every school and neighborhood, in nearly every family, it is found that one person will succeed best in one study, another in another, and neither will come up to the measure of his best power on every subject. In a single The blow which produced the injury family one child takes to music, another doubtless fractured the skull, causing a to mathematics, another to languages, pressure upon the brain. The fracture another to trade, and another to art, and not being indicated on the surface, yet not one could profitably change with

Zerah Colburn, born at Cabot, Vt., machinery was disturbed but not ruined. answered with accuracy and with marvel-Among the questions brain, and when it is removed the mind swer, given in twenty seconds, was 661,015 will resume its action, and thus it may be days, 15,864,360 hours. How many secin four seconds, was 346,896,000. It is said that a few months before his birth, his mother, who had never been taught arithmetic, had on her mind, for a day and a night, a puzzling question as to how many yards of cloth a given amount of yarn which she had would make. To a person understanding arithmetic this would be a simple problem, but she had to do it by a mental process, without rule, and this extraordinary effort on her part was organized in her child and made him a genius in mental arithmetic, but not in mathematics.

An attempt was made to educate him in other branches of study, but he never distinguished himself nor even came up to the common average. If there is not a special faculty for number why could he not do as well in other things? Other persons are excellent in figures, and also in other departments of thought.

PARTIAL IDIOCY.

Partial idiocy is another proof of the plurality of the faculties; it is a condition in which mind seems to be nearly or quite a blank on some points, while on other points there is the ordinary amount of strength. As Zerah Colburn manifested one faculty as a genius, and was not above the average in anything else, so we find instances in which a person is considered idiotic as a whole, and yet may manifest musical or numerical talent to the extent of being a genius in that one particular, while deficient in everything else. We knew a young man, A. K., of Blandford, Mass., having a small head, and he was so destitute of common sense that he could hardly learn to read, and was unable to manage for himself, yet he possessed the talent of memory of time to an astonishishing degree. Dates were his forte, and he remembered the time when unimportant things occurred for months and years, though they had no relation to himself.

PARTIAL INSANITY.

sons are insane on the subject of property, and imagine they are millionaires and own all the public buildings in town, but on any other subject they will converse for hours and in a rational and intellectual manner, and no one would discover the slightest aberration of mind. One has only to visit a hospital for the insane to find that one is insane on the subject of property, another in the matter of domination or pride, another has an insane conscience; another is insane on the subject of saving; another on the subject of worship and devotion; another is a monomaniae on the subject of charity and benevolence; another becomes warped on the subject of litera are or mathematics or history.

As udent in Yale College, one of the most profi sient, especially in languages, became insane, that is to say, disturbed in the faculty of language, and it was an amusement to the other students, and to everybody in New Haven who knew him, to hear him rattle off the "big" words, while on all other subjects he seemed perfectly sound. He was made angry by somebody, and he instantly said, "I will sift you through immensity where it will require omniscience to find you and omnipotence to put you together again." This might possibly be called classical profanity. On another occasion a farmer came in with his ox team and load of wood for Professor Taylor, and, stopping in front of the "College green," inquired where he could find Professor Taylor. There were a dozen students in a group, but the literary maniac stepped forward and gracefully said, "Crucify the quadrangle, ascend the grades, make a dextral vert and you will find him perambulating his domicile or prospecting his his fenestrum." The farmer stood dumbfounded, remembering only the last word, and said, "Fenestrum, what does that mean?" The student instantly said, "It is the aperture through which the concave of the dome is illuminated." If he had not been crazy, and had stated the same idea in plain words, he would have said. Partial insanity, as well as partial genius "Cross the square, go up stairs, turn to and partial idiocy, proves that the mind the right, and you will find him walking has many distinct faculties. Some per- his room or looking out of his window."

There are many persons who are partially insane who will carry themselves harmoniously on all points but the warped one, just as a piano will play anything and everything equally well if the one string which is broken or out of tune be not required to perform any notes in the piece of music. Insanity sometimes affects merely the imagination and not the reason; then the person will reason soundly in respect to everything but the one in question.

INSANITY OURED THROUGH PHREN-OLOGY.

To emphasize the fact of the plurality of faculties, and that each may be i sane while the others are sound, we insert two marked facts.

"In 1845, while lecturing in Westfield. Mass., I received a call from a friend residing at Suffield, Conn., twelve miles distant, where I was acquainted. He informed me that H. B., of Suffield, had recently received a blow upon the head in the region of the temple, and had become insane in consequence. He appeared somewhat strangely for a day or two, and then took a train for New York, and before arriving there, attracted attention by immoderate laughter at everybody and everything in the car. A gentleman who knew him happened to be on the train, and took him back to Hartford, left him in the Asylum, and sent for his father. Here he had been for several weeks under treatment without any apparent benefit. On hearing these facts I wrote at once to the father, and sent it by my informant, stating my impression that the injury was upon the seat of Mirthfulness, hence his tendency to laugh, and to see absurdity in everything, and suggested that if the physician would apply leeches and ice to that part of the head which was injured, the symptoms of insanity would cease. The aged father, who was interested in our lectures on phrenology at Suffield in 1841, recognizing the reasonableness of the view I had taken of the cause and proper treatment of the case, on receiving my letter at eight o'clock that night, he instantly

harnessed his team for a dreary drive of seventeen miles to Hartford, and, reaching the Asylum at eleven o'clock, after Dr. Butler had retired, he insisted on seeing him at once. With my open letter in his hand, the anxious father met the doctor, who read it deliberately, and said:

"It looks reasonable, and we will try the treatment in the morning."

"No, doctor; we will try it to-night, if you please, I can not wait till morning."

"All right," said the doctor, "to-night, if you say so."

In half an hour the patient was under the treatment of leeches, in another half hour the injured part was under the influence of pounded ice, and the patient was fast asleep. The next morning he and his father took breakfast with the doctor; and "he was clothed and in his right mind," and in a short time went home with his father, apparently cured.

The injury was directly over the organ of Mirthfulness, and the inflammation caused by the blow produced the deranged action of that faculty. Forty years have now (1885) elapsed since this injury was received, and there has been no return of the symptoms of insanity. Had the inflammation been allowed to proceed, death, or mental derangement for life, might have been the consequence. The young man being my friend, I felt a peculiar interest in the case."*

LOVE OF LIFE-INSANITY. years ago I was invited to give a course of lectures at the "Asylum for the Insane," near Morristown, N. J. About a hundred persons are required as physicians, nurses, attendants, and workers, in order to conduct that most complete asylum. It has been found that good help can not be long retained at reasonable wages in such close confinement as is there required, unless lectures, concerts, and other proper entertainments are brought to them. Besides, there are generally two or three hundred of the patients who are able to appreciate such entertainments and greatly profit by them.

^{*} From "Forty Years in Phrenology," by Nelson Sizer. Fowler & Wells Co. publishers.

accepted an invitation to remain for a day to make professional examinations. The assistant matron had the names of the female attendants who desired examination, and she called them to a reception-room for that purpose in groups of four or five. In such an asylum, it was natural for persons to ask through what faculties each would be more likely to become insane. With one it was stated that loss of property would unbalance the mind through an abnormal condition of Acquisitiveness, should it arise; with another Approbativeness, through loss of reputation; with another Conscience or Caution; with another some social trouble, through the loss of companion, child, or friend. To one lady I said, "You have a royal constitution and ought to live to be ninety, and will be very likely to reach that age if no accident befall you; besides, you have Vitativeness, or Love of Life, so strongly developed that you would recover from illness or injury through its influence, when most persons with less Vitativeness would give up and go under. If, therefore, you should become insane it would most likely show itself through the dread of death."

The assistant matron then said: "She is a patient, and the fear of death constitutes her insanity. She has the confidence to believe that Dr. Buttolph, the Medical Superintendent, can keep her alive, and she dare not be anywhere else. These forebodings sometimes come on in the night, and she can not be assured until the doctor is called, and perhaps gives her some medicine."

From this moment she seemed perfectly happy, telling every one she met that "Mr. Sizer said she would probably live to be ninety." The next day her husband made her his usual Saturday visit, and she greeted him joyfully, saying, "Edward, I am going home with you." "All right, my dear, if you wish to go you shall go."

Her trunks were packed, and she and her husband took the next train for home, and she has not since been back to the asylum. What I told her of the restricted

At the close of my course of lectures, I and peculiar nature of her liability to incepted an invitation to remain for a day sanity gave her strength to overcome any make professional examinations. The threatened return of it.*

Thus Phrenology throws a flood of light on the subject of insanity for those who wish to learn.

DREAMING.

Dreaming or incomplete sleep is an instance proving that the mind is not one separate faculty or power, for if it were so, it would be either all awake or asleep at the same time. Dreams are inconsistent, illogical, and as all the faculties become awakened and fully conscious, the dream which seemed real is correctly estimated. If the organs in the base of the brain are sufficiently awake to act and produce their impressions, one may dream he is a murderer, or thief, or capable of committing almost any crime, and he is practically in a condition such as he would be in if his moral and intellectual faculties were so badly represented in the brain as to leave little but animal propensity and selfishness as the basis of his character; he would thus have a strong tendency to be a thief and a ruffian really. Sometimes in a dream one rises to an ecstacy of benevolence and kindness; his aspirations are angelic, for then that part of the brain is active through which those elements are manifested, and the selfish or sensual part of the nature is hushed in sleep; as an organist would say, a man is working with a peculiar set of stops drawn, or that the mind was working through its upper register.

DIVERSITY OF CHARACTER.

Finally, the diversity of human character and talent presents to the daily observer sufficient proof on this point. Persons of good general ability complain of a deficiency of memory, say of names, places, colors, words, facts, dates, or a want of the talent for music, mechanism, or economy.

Mr. George Combe, the author of the "Constitution of Man," eminent for general ability and a sound reasoner, an eloquent writer, a strong thinker and a mar

^{* &}quot;Forty Years in Phrenology."

the multiplication table. He was a graduate of the University of Edinburgh, was a lawyer by profession, and a reader of his writings would pronounce him a thinker; but an ordinary boy of six years of age was his superior in respect to the knowledge of numbers, and he remarked if his faculties were all as deficient as that in respect to numbers he would be idiotic. If the mind is a single power, and the whole mind acts in every mental manifestation, why are there such phenomena as partial genius, partial idiocy, partial insanity, dreaming, and the general diversity of character and talent? These can be accounted for on no other hypothesis than that of the plurality of the mental faculties, and the possibility of possessing a strong endowment of one or more faculties, with one or more other faculties deficient.

PLURALITY OF THE MENTAL ORGANS.

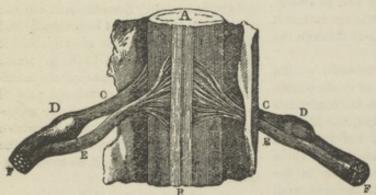


Fig. 9. A section of the spinal cord showing the nerves which are sent to the arms, one bundle of which, C, originates in the posterior, or sensory colamn of the spinar cord, while the bundle E origimates in the anterior tract of the spinal cord, yet they anite and are sent out to the arms in one common sheath , the smaller bundle, E, are nerves of motion, and are under the control of the will ; and the intellectual organs of the brain and the anterior tract of the spinal cord are intimately related, while the posterior section of the spinal cord and the bundle of nerves, C, are of the sympathetic or sensory characber, and bring to the brain a consciousness of pleasure or pain in the extremities ; A B represents the spinal sord. CC the sensory nerves and the ganglion; E, the anterior or motor tract of nerves; F shows the perve fibres.

the brain into hemispheres and lobes, phrenologists recognize another division,

of most excellent moral qualities, stated namely, into organs, which are equal in in his lectures that he never could learn number, and correspondent to the faculties of the mind; and though there are no compartments fenced off from each other by membranes like those which enclose the several sections of an orange, yet that is no proof that these individual organs do not exist. Some medical men have objected to this division of the brain because there appears to be no anatomical division of the brain into compartments. To such critics, we reply that the nerves of sensation and those of motion are sent off to an arm, for instance, inclosed in one sheath, and are so nearly alike in substance and appearance that no dissection, however minute, and no microscopic analysis, however severe, will indicate the slightest difference between them; and every anatomist knows that if one portion of that little nervous cord be severed the sense of feeling will be utterly destroyed in that arm, while the power of motion will remain undisturbed. On the contrary, if the other portion of that bundle In addition to the general division of of nerves were severed, the power of mo-

> tion will be extinguished, while the property of sensation will remain. [See

Fig. 9.]

On this principle we claim that the brain may have forty mental functions, and their corresponding organs. If the nerves of sensation and motion can be sent to the arm without special divis-

ion and can lie in one sheath side by side and yet have such differences of function, the objection that the organs of the brain can not be distinct in their functions because they lie side by side, is futile; the Higher Power is satisfied to give strength and function to the different parts without the fear that they will clash with or trespass on each other. This anatomical objection to the multiplicity of organs in the brain because each organ does not appear to be fenced off, therefore, falls to the ground. Nature's laws are specific and binding though her town, county and State lines are not fenced like the fields of a farm.

THE HUMAN TEMPERAMENTS.

While the action of mind is dependent ious, and the Nervous temperament. These temperament, which must be well under- ognition among scientific men to-day. stood before one can thoroughly analyze character.

The word "Temperament" comes from the Latin, and signifies a mixture or arrangement of qualities or parts. apostle Paul speaks of the body being "tempered together." In mechanics the expression is common. A mason speaks of "tempering mortar;" the machinist of "tempering steel "-a good or proper temper meaning a mixture of qualities or constituents in due proportion, so that the effect desired shall be good. Temperament, as applied to man, has reference to the mingling or combination of the physical elements.

AN ANCIENT CLASSIFICATION.

In ancient times there were four primary temperaments, which were described by Hippocrates as dependent upon four primary components of the body. For instance, he in whom the blood predominated was said to have the Sanguine temperament; if the "phlegm" were in excess, the Phlegmatic; if the "yellow bile" were most fully developed, the Choleric; and if the "black bile" were most abundant, the person was said to be of the Melancholic temperament, and his character partook of the impression made by his temperament.

Later on, this old classification became modified, but rather more in name, however, than in essential nature, until a material change in it was brought about in the eighteenth century, when better views of bodily states were entertained because of increased knowledge regarding human anatomy and physiology. Then it be- the heart, lungs, veins, and arteries, and eame common for medical men to speak is indicated by a form of moderate fulness,

primarily upon the faculties, its expres- were related to the four great organs, resion is greatly influenced by physiological spectively, the lungs, stomach, liver, and Here comes in the law of brain. This classification has a wide rec-



Fig. 10. Sanguine Temperament,

The Sanguine temperament, as its name implies, is dependent upon the constitutional predominance of the apparatus employed in the circulation of the blood -



Fig. 11. Lymphatic Temperament.

of the Sanguine, the Lymphatic, the Bil- light or brown hair, blue eyes, a fair of

ruddy complexion, with a fondness for exercise, and a general disposition to active pursuits.

The Lymphatic temperament depends upon a predominance of the stomach, digestive apparatus and glandular system, and is manifested by a general roundness of form, with soft and flabby tissues, and a slow, languid circulation. The complexion is pale, the hair yellowish, fine, and limp, the eyes watery. In apposition with the vital sluggishness, the brain is slow and feeble in its functional exercises, and its mental expression, therefore, lacks spirit and vividness.



Fig. 12. Bilious Temperament.

The Bilious temperament is marked by a dark-yellow or brown skin, dark or black eyes, a strong, bony frame, firm muscles, and rugged, prominent features. All the physical functions are indicated by great energy and positiveness of action—a condition with which the brain partakes.

The Nervous temperament being dependent upon the paramount development of the brain and nervous system is shown by a general delicacy and fineness of the body, with its accompaniments of rather thin hair, small muscles, a pale skin, while the head is large and the features finely cut. The sensations are lively, and the action quick—the mental manifestations sharing with the physical vivacity in a proportional degree. In this temperament there is a decided tendency to study, to

live in the realm of thought, to cultivate art, poetry, and sentiment, and to dwell above the world of mere matter, and especially that which is gross and coarse.

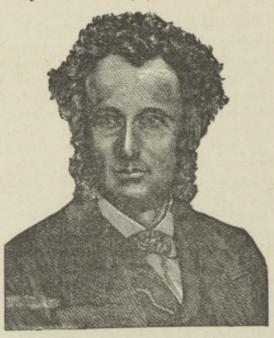


Fig. 13. Nervous Temperament.

Millais, eminent artist. Very fine quality, marked mental temperament, classical features, head enormously developed in the asthetical faculties; Ideality, Imitation, Constructiveness.

AN IMPROVED CLASSIFICATION.

With further knowledge of the reciprocal influences of the physical and mental qualities, recent observers have been able to make clearer and sounder distinctions between conditions of health and disease, and a better system of temperaments now obtains that defines with approximate exactness three grand classes of normal condition, whose primary significance is referred to the three grand types or classes of organs in the human body, which are:

- (1). The *Motive* or mechanical system, including the bones, the ligaments, and the muscles.
- (2). The Vital or nutritive system, involving the lymphatics, the blood vessels, and the glands; and
- (3). The Mental or nervous system, including the brain and spinal cord.

When we compare one person with another we are accustomed to recognize at once certain prominent features. We no-

tice that one is tall and another short; pending upon the relative proportions of another muscular and strong-boned; an- its different masses and the relative energy other plump and rounded; another deli- of its different functions." cate and slender. One has a rosy, rich

The three grand classes which we have complexion; another is dark, swarthy, enumerated are known respectively by the with piercing black eyes; another has fair names of the Motive Temperament, the

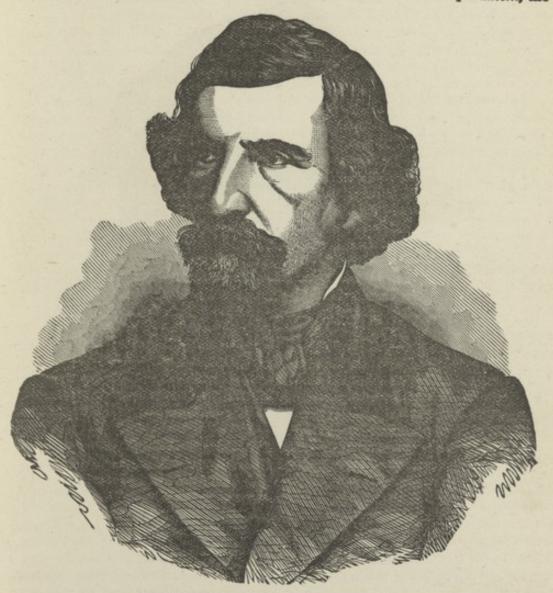


Fig. 14. Dr. James H. Dixon. Motive Temperament.

hair, in which the hues of the sunlight appear to blend. One has black eyes, another blue, another gray. One is quick in movement; another is slow and deliberate. These differences, after but little experience in observation, we are led to apply to certain constitutional conditions or physical states; in a word, to the temperament, which may be defined as "a particular state of the constitution, de- to study the mental organs.

Vital Temperament, and the Mental Temperament; and when one of these predominates in a person, it determines his constitutional condition, and the special quality of his mind is largely due to it.

Hence it is clear that to judge of character well, one should understand the conditions that tend to develop the special temperamental bias in a person, as well as

THE MOTIVE TEMPERAMENT being determined by the class of organs from which it takes its name, is therefore

marked by a superior development of the bony and muscular system. As inherited, it is the result of climate, topographical

ged and prominent. The expression of the face is striking-it is strong, earnest, determined, and may be severe and stern. Fig. 14.

As regards color, there are two varieties, the dark and light. With the dark com-



Fig. 15. Norman McLeod D. D. Vital Temperament,

generations. Among people who dwell in mountainous countries, like the Scotch and the Swiss, we find it strongly marked.

Its characteristics are large bones, strong, hard muscles, prominent joints, and an angular figure, usually associated with more than average height; the shoulders are broad, the abdomen is moderate in fulness, the face oblong, the cheek bones are rather high, the jaw large, the

conditions, and habits of life followed for plexion we find the bilious element strongly predominant, and so with persons of dark complexion the old term "bilious" temperament may apply not unsuitably. In persons having a light complexion, sanguineous elements are influential; the skin is florid, the eyes blue, gray or hazel, the hair often red or sandy. To such the term "sanguine" has an application. We find this division of the Motive temperament well illustrated teeth strong, the features in general rug- by the Scandinavian peoples and by the Scotch of the Highlands.

have described are modified, the contours activity, freshness, and sprightliness. being softer, rounder; while the influence pressed in their character.

As a rule those in whom the Motive temperament strongly predominates are distinguished for their force of character, industry, courage, and executive ability; they are the leaders in active life; the observers rather than the thinkers-can do the work that is planned by the thinker; are often arrogant and domineering; while their love of power and control leads often to excessive effort. Those nations that have taken rank in history for their prowess in war are specially characterized by the Motive temperament. We find it decidedly marked in the American Indians, and in fact in all barbarous or savage tribes that are celebrated for their warlike inclinations.

THE VITAL TEMPERAMENT

is dependent upon the nutritive systemtured. Fig. 15.

The Bilious light and dark complexions. With the type is very common among Americans; first the skin is ruddy, the eyes blue, and the dryness of our climate, the activity of the hair light brown; with the second, the the people, and the diet commonly used hair is black or dark brown, the eyes genhaving a tendency to its production. In erally black or dark brown, sometimes persons of this temperament, firmness of hazel or gray; the complexion may be the tissues is characteristic, imparting olive, brown, yellow, or black, as in the strength and endurance, with unlimited negro. In those of dark complexion bilcapacity for both mental and bodily labor. ious elements enter, that confer more In women this temperament is much physical endurance than is possessed by less frequently seen than in men, and in the light or sanguine type of the Vital. those who possess it the characteristics we The latter class, however, possesses more

In women this temperament is very of the temperament is none the less ex- common; it is for the most part the temperament of woman, contributing to their symmetry, roundness, and agreeable proportions, and accompanying a fine complexion, brilliant eyes, brown, flaxen, or auburn hair, and those characteristics that belong to the order of beauty. In the olive or brunette complexion there is more density of fibre and more endurance, yet the figure as a whole is full, soft, and attractive.

The bias of this temperament is to physical activity, with mental facility and versatility; they who have it are distinguished for elasticity rather than firmness; for more diligence than persistence. They have a ready perception, an active imagination, express themselves with quickness and brilliancy, but are more showy than solid; very fond of variety, and therefore incapable of fixing the attention long on one subject, and so unfitted for pursuits the organs of digestion, respiration and that require abstraction. They are very circulation. It is characterized by stature passionate but changeable in mood; lively, above the medium, and by breadth of body cheerful, amiable, frank, and candid; fond proportionately greater than in the Motive of good living, play, and sport; and at temperament, while the bones and mus- the same time apt to fall into habits o cles are not so strongly developed. The eating and drinking that are injurious, chest is full, the abdomen rounded, the Thus, with strong social affections, they limbs plump and tapering, the hands and are more liable to irregularities in the feet relatively small; the neck is compar- way of frivolity and dissipation than peratively short and thick, and the shoulders sons with the Motive temperament. broad and round. The head and face cor- With, however, high moral principles to respond with the other parts; are well restrain or regulate their conduct, they filled out with adipose tissue, while the generally lead very happy, useful lives, expression is lively, frank, and good na- enjoying and promoting enjoyment. The majority of our brilliant writers, those In the Vital temperament we find both who can describe vividly phases of social

copious in diction, are distinguished by the Vital element.

THE MENTAL TEMPERAMENT, though last in our order of enumeration, ment that lies at its basis being the brain in color and not thick; the eyes are gen-

life, are rich in varied phraseology and body. The face is oval, the forehead high and broad, especially in the upper part. The features are delicately cut, if not sharp; the countenance is mobile, and very expressive; the skull delicate and is first in influence, the constitutional ele- thin; the hair fine and soft, usually light

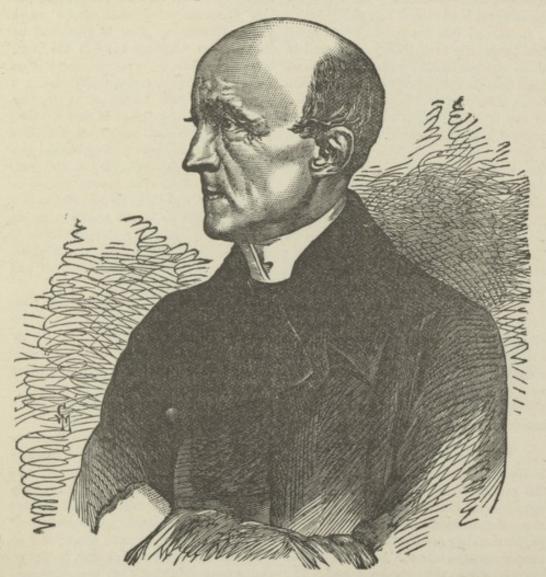


Fig. 16. Cardinal Manning. Mental Temperament.

mary.

that is large in proportion to the size of delicacy. Fig. 16.

and nervous system. Like the others, erally gray or hazel, and brilliant in exits predominance in the organization is pression; the voice high in key and flexdue to inheritance, and if originally mod- ble. The figure is not so strongly marked erate in degree, it may be strengthened as in the Motive temperament, seldom imby training and culture, so that from hold- posing, but may be graceful and elegant. ing a secondary place it may become pri- The muscles are small and compact in quality, adapted to rapid action rather This temperament is characterized by a than strength. In fine, the whole strueframe comparatively slight, and a head ture is distinguished for its fineness and

Ba good degree of vitality to sustain it, he person may exhibit remarkable capabilities, for the reason that in its very nature this temperament indicates a special activity of the mental faculties, with power of correlation and intensity of emotior The tendency of persons so organized is generally towards pursuits that employ the mind more than the body. Literature, poetry, and the fine arts are specially affected by them. It is the literary, artistic, and poetic temperament Fig. 17.

With the upper or coronal organs of the brain largely developed, and the organs at the base but moderately so, taste and delicacy of feeling and refinement of manner, distinguish those in whom it is predominant. Hence individuals so characterized are rarely found among the eriminals, drunkards, and vicious of society. When they are they owe their degradation to some peculiar and almost



Fig. 17. Postic-Artistic.

fatalistic train of circumstances. In women who have this temperament there is a decided lacking of the plumpness that characterizes the Vital temperament; they symmetry and grace of physical propor- dominance.

The power of this temperament is de- tions. They are properly called spiritpendent upon the brain, and when there uelle, are sensitive, emotional, ideal, and aspiring.



Fig. 18. MENTAL-SPIRITUELLE,

In the highly educated classes of America there is a marked tendency toward the excessive development of the Mental temperament, while the Vital system is becoming proportionately deficient. Fig. 18 illustrates a familiar type of face often met among women of culture. This tendency is promoted by the growing bias of the day to sedentary pursuits, and the forming of social and dietetic habits that are inconsistent with robust health.

COMBINATIONS OF TEMPERAMENT.

In our descriptions of the temperaments we have considered them mainly as independent elements or in excess. In nature they exist in combination, one being, however, the most conspicuous. So rarely do we find examples of an even mixture or balance, that it may be said that they who possess it are marvellous exceptions in the current of human society. Such an even mixture would indicate a most extraordinary heritage; it would be constitutional perfection. But, once in a while, a person is met in whom there is a close approach to this balance, and we are accustomed to speak of it as a balanced or may be beautiful, but it is the beauty of harmonious temperament, it being diffidelicacy and refinement, rather than the cult to determine which element is in pre-

In Fig. 19 we have a good example of this balance of physiological condition; there developed body; the features are regular ances result.

of remarkable accomplishment, may develop into great activity the energies of we find the indications of a symmetrically such a nature, and remarkable perform-

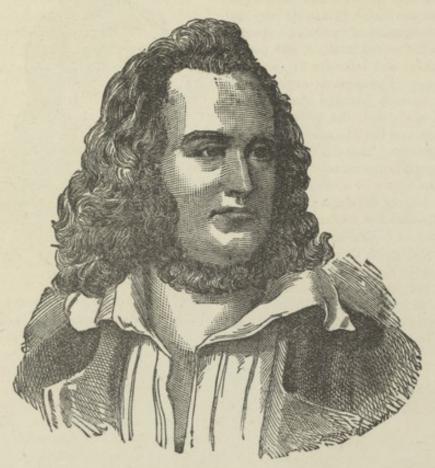


Fig. 19. Balanced Temperament.—John Wilson ("Christopher North.")

and full; the head is quite evenly proportioned; the complexion is medium, neither dark nor light; the hair dark brown, the eyes gray or brown. In such persons the harmony resulting from the blending of the temperaments is also indicated in the character. There is vivacity, quickness, and ardor, modified by deliberation, steadiness, and coolness, and refined by taste, delicacy, and ambition. The Motive temperament supplies perseverance, endurance, energy; the Vital its buoyancy and flow of spirits. The character in such a case is many sided, while it is harmonious; it has capacity for doing many things well. And in conduct, such persons are known for regularity, decision, energy, and steadfastness. Occasions of special excitement, emergencies that have in them the germs

USUAL ASSOCIATION.

As a rule two of the constitutional elements exist in a good state of develop. ment, while the third is comparatively weak. These two are taken as determining the physiology, and it is named in accordance with this condition, the stronger of the two temperaments being named first. For instance we speak of the Motive-Vital temperament, or the Vital-Motive; the Mental-Motive, or the Motive-Mental; the Vital-Mental, or the Mental-Vital; the name placed first indicating the stronger influence.

MOTIVE-VITAL TEMPERAMENT is the combination more to be desired than others for organic power. It is indicated by a physical organism, well endowed for

strength and endurance, the bones and influence, being positive and distinct. ant vitality, firmness, toughness, and activity. Fig. 20.

This combination adapts one for the physical work of life. It is not of an intellectual tenor; it contributes but little taste for literature or pursuits that demand study. There may be good practical talent, clear perceptions, sound judgments, but it is in the out-of-door activities of the world where it is most successful. Farmers, carpenters, soldiers, sailors, and



Fig. 20. MOTIVE-VITAL TEMPERAMENT.

Colonel Thomas L. Casey, Chief Engineer of the Washington Monument. What a brave, positive, pushing nature; the nose is aggressive, and corresponds with his large Combativeness and Firmness. His large perceptives are adapted to details and practical business, and his power lies in moulding and controlling men. Would do well as a fighting general. blacksmiths, expressmen, and all others who need a strong muscular organization require this combination. In the

MOTIVE-MENTAL TEMPERAMENT

physical strength, toughness, endurance Italian, North German. but it is neverthless tough, wiry, and active. Fig. 21. The manner indicates tinguished by a large, broadly developed

muscles and joints being large and strong, person so constituted is clear-headed and the shoulders broad, the chest full. The energetic, he may be passionate, but he physiognomy of the form evinces abund- feels more the restraining influences of the



Fig. 21. MOTIVE-MENTAL TEMPERAMENT. Governor S. E. Pingree, Vermont. Motive-Mental

temperament, practical, pushing, intensely ambitious, thorough, forcible.

æsthetic faculties and moral influences than those in whom the Motive-Vital is indicated. He has capacity for understanding solid, practical things, and is moved by feelings of ambition, desire to lead in whatever he undertakes, and success is very gratifying.

Some of the greatest men the world has known possessed this combination, especially warriors, explorers, and navigators. It involves both talent to plan and power to execute. Men having it wish to work as well as to think; in fact, they think best when on their feet carrying into effect their enterprises. The nations of the world most eminent for progress in new we have a higher type of organization; fields of research, are distinguished for the motive is still dominant, but it has this combination; in the American people more of the refining influence of the in- it is common; so, too, in the Scotch, North tellect. The figure is not so marked for of Ireland people, in the Welsh, North

THE VITAL-MOTIVE TEMPERAMENT is disenergy, the language showing the mental body; the glandular system is largely developed, the shoulders are broad, the neck inclined to in-door restraint; they prefer thick, but there is a good degree of mus- out-of-door activities. If well educated, cle, and the features are prominent and they take a good place in society on acthe hair rather coarse. The man so constituted shows more strength than grace; he has capacity for hard work, and loves out-of-door exercises. Fig. 22. In the character there is considerable vivacity and impulse, without, however, much showiness or brilliance. In many respects persons of this type are known for rather strong passions and appetites; if they fall among vicious associates they are likely to be led into evil courses, become dissipated, intemperate, and even criminal. We may, however, find persons of eminence in society who have this combi-



Fig. 22. VITAL-MOTIVE TEMPERAMENT. nation; judicious training, with refining associations, have helped them to advancement; the strong practical elements in their nature have aided them to working their way slowly but surely toward position and honor.

THE VITAL-MENTAL TEMPERAMENT

is for the most part a happy organization; it imparts many attractive qualities, especially to women, for with it are warm affections, kindness, amiability, grace, sprightliness, and usually much personal beauty. The complexion is generally fair and rosy, with blue eyes, and light brown or yellow hair, the figure being plump and well rounded, the face full and usually rather large. Fig. 23. The stimulus of the mental element is toward the exerbut men of this constitution are not much clear and flexible. Fig. 24.



Fig. 23. VITAL-MENTAL TEMPERAMENT.

Belva C. Lockwood, lawyer, Washington, D. C. Fine, harmonious intellect; decided force and ambition, and expressive and amiable face.

count of their fluency of language and brilliancy of thought. This combination in its moral aspects is known for vigorous appetite and active passion; it loves ease and pleasure, comfort and good living. and on that account rather strong elements of restraint are necessary to preserve the moral integrity. Men of this stamp, if educated, are fond of public banquets, and are good dinner-table orators, and their wit and social enthusiasm make them welcome on festive occasions.

THE MENTAL-MOTIVE TEMPERAMENT

appears before us characterized by a tall and rather spare figure; the frame is inclined to angularity, yet dignified and firm in poise and manner. The features are rather prominent, but finely cut; the eyes are gray, hazel, or brown; the hair cise of the brain rather than the body; is generally light brown; the voice is

ture of the solid sort is usually preferred; scientific studies and professional pursuits are followed by the great majority of men with this combination. The main body

Fig. 24. MENTAL-MOTIVE TEMPERAMENT.

M. Romero, Mexican Minister to the United States. A bright, susceptible, excitable nature, ample intellectual development; strong side head, showing financial ability and force, prudence and sagacity.

of thinkers, writers, and mental workers of society who contribute most to the solid advancement of civilization, are thus characterized. If the vital system be weak, there is a tendency to overwork, and thus protracted effort results in disaster.

THE MENTAL-VITAL TEMPERAMENT is a very favorable combination; those who possess it are known for superior capability, ambition, earnestness and sincerity. In person they are well proportioned, the features being often very regular and handsome, with an expression that is full of intelligence, sympathy, and grace. The complexion is usually fair, the hair brown or auburn, the eyes gray or blue.

This combination indicates intellectual faculties are versatile, giving a tendency capability, with a good support of endur- to artistic vocations. When the domestic ance, force, and energy. The mind is and social feelings are strong, and the adapted to pursuits requiring much moral sentiments active, the whole nature thought and breadth of analysis. Litera- is one of elastic exuberance. The charac-



Fig. 25. MENTAL-VITAL TEMPERAMENT.

Thomas Lubbock, Scientist in Natural History. Comprehensive intellect; fine imagination, financial talent and business ability.

ter in such cases, however, is lacking in force, energy, and purpose; it is more fervent and brilliant than solid, strong, and persevering. Many who are recognized as leaders in society have this combination; they achieve distinction through impulse. oratorical display, moral impression, poetic or artistic versatility.

TEMPERAMENT AND PHYSIOGNOMY.

Physiognomical expression is more closely related to temperament than it is to organism or the brain development; this is the case especially as regards the fixed expression of features that depend upon the bony structure. If any reliance is to be placed on the indications of physi-Fig. 25. The brain, as might be at once in- ognomy, as physiognomy is generally unferred, is very active in such persons; the derstood, the features of the face must be

fected by moral emotion or intellectual excitement, a feature may pass through a great variety of expression-the transition-

"From grave to gay, from lively to severe," being often too rapid for critical analysis.

From what has been said and shown in our description of the temperaments singly and combined, it is seen that certain combinations, that especially of the Vital-Mental, are particularly sprightly, elastic and susceptible of emotional impressions, and their effect upon the conduct is most marked. We meet with young women who are endowed with the Vital-Mental or the Mental-Vital, and are much entertained by their liveliness and buoyancy. They who possess the Vital-Mental interest us by their exuberant good nature and perpetual flow of easy happy talk, while their faces glow with enthusiasm.



Fig. 26. Anna Cora Mowatt Ritchie, Actress. A fine nose and chin; good practical talent; great spirit, energy and refinement.

The serious appears to have little to do with their manner of thinking; life wears a sunny glow, and that affliction must be severe indeed that brings more than a temporary shadow over their minds. In Mary Queen of Scots we have a good example of this temperament. The pleasureseeking, careless and indolent, yet polished Charles I., of England, also possessed this temperament. Its influence in sustaining these unfortunate sovereigns amid their trials was signally manifested.

examined when in repose, for when af- type of organization. The best specimens of it on the male side, we have met among actors, those who sustain subsidiary parts in comedy and farce, or figure on the bills of variety theatres.

TEMPERAMENT IN LITERATURE AND ART.

The Mental-Vital possesses fewer elements of physical stimulus, less gaiety and



Fig. 27. SAPPHO.

sensuousness, but more æsthetic aspiration. Men and women so constituted delight in studies of taste and refinement, and lean



Fig. 28. MARTIN MILLMORE, Sculptor. particularly toward poetry and the fine Fig. 27 illustrates the physiognomy of this arts. The classic representations of Sappho

are in keeping with this idea, and as we son over the list of writers whose lyrics warm the soul into ecstatic admiration for



Fig. 29. JULIA DEAN, Brilliant Actress. Good Language; large perceptives; very large Hope and Conscientiousness.

most part, of the Mental-Vital constitution.

Fig. 30. Mrs. Ann Hazeltine Judson. First wife of the eminent missionary; indicating a lencate temperament, and an amiable yet earnest spirit, and entire devotion to her cause.

Moore, Southey, Tennyson, Longfellow, Hannah More, Jane Ingelow, Elizabeth Oakes Smith, R. H. Stoddard have it. In artists whose subjects depict the action of

The portraits of Raphael, Van Drae, Titian, West, Millais, Spencer, Constant Mayer show it.

Whatever may be the occupation of one having this temperament he or she, if well developed in faculty, will impart dignity and refinement to it. The man will magnify the office. The influence of the Motive temperament when it is comparatively strong, yet subordinate in influence to either the Mental or Vital, is evinced in the work of the writer or artist by the vigor and force of his language or drawing, and by the motive underlying the pression. Further, work is more thoroughly done, and embraces more of meaning that bears relation to practical life. Such writers as Dante, Browning, Ruskin, Emerson and Whittier show in their lines the influence of the Motive temperament upon an organism that is greatly endowed in faculty. So in the work of great artists like Buonarotti, Murillo, Makart, sm. our own Church, Gifford and Irving, the the sweet and pure, we find them for the same characteristic is exemplified.

EXCESS OF THE MENTAL

While a large proportion of the Ments element is desirable because of its endow



Fig. 31. MACDONALD CLARK, Poet,

ment of capacity for intellectual growth, yet its success is likely to contribute to weakness and failure because of an insufficient vital basis. When trials and disappointments occur it is likely to succumb the higher sentiments in life it is expressed. to them. "In the struggle for success,"

Dr. T. M. Coan says, "which among civi- lects may have been, they were wanting lized men has taken the place of the strug- in the physical elements necessary for gle for life that goes on among the lower beings, the nervous constitution 'goes to the wall' sooner than any other. Yet as it possesses but moderate functional activity it escapes much of the liability to the acute diseases which attack the heartier temperaments; and under favoring circumstances often enjoys the best of health and attains old age." *

PHYSICAL SIZE AND CAPACITY.

The record of great achievement belongs for the most part to men having large heads, but with volume of cerebrum

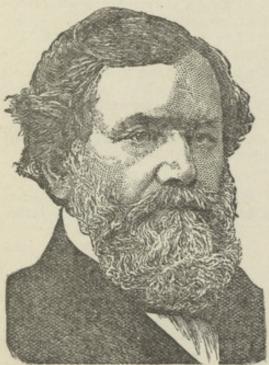


Fig. 32. CYBUS H. McCormick.

Inventor of the reaper. Large Constructiveness and Ideality, strong, practical talent and good reasoning power, working in the practical direction, with a strong constitution.

we find large chests—powerful lungs—associated. Webster, Clay, Calhoun, Pitt, Brougham, Mazzini, Cavour, Gambetta, Palmerston, Seward, Gladstone, Bismarck, consider their broad breasts and powerful shoulders. The record of the men with large heads and narrow, cramped chests is comparatively nil in the history of national progress. However fine their intel-



Fig. 33. HENRY G. PEARSON, Post Master of N. Y. He has a healthy, Vital-Mental temperament, is active, earnest, practical, shrewd, methodical and clear-headed; is adapted to details, and with his large back-head and high crown, is able to control and manage people, while he wins their affection and respect.

their ample nourishment and support. Galton recognizes the fact of a proper relation between development of brain and body as essential to capability. He says: "There is a prevalent belief that men of genius are unhealthy, puny beings-all brain and no muscle-weak-sighted and generally of poor constitutions. I think most of my readers would be surprised at the stature and physical frames of the heroes of history who fill my pages, if they could be assembled together in a hall. I would undertake to pick out of any group of them, even out of that of divines, an 'eleven' who should compete in any physical feats, whatever, against similar selections from groups of twice or thrice their numbers taken at haphazard from equally well-fed classes. . . . It is the second and third-rate students who are weakly. A collection of living magnates in various branches of intellectual achievement is al-

^{*}The Galaxy-1870.

ways a feast to my eyes, being, as they are, such massive, vigorous, capable-looking animals." *

AN INHFRITANCE OF THE MOTIVE.

We now and then meet persons of apparently delicate constitution, yet are pos-

Fig. 34. ZADOR PRATT.

Motive Temperamnt especially prominent; great energy and enterprise. The greatest tanner in the world in his time; became a Member of Congress.

sessed of wonderfully tenacious powers. They have a spirit that seems capable of meeting and mastering any situation. Such persons have inherited a high degree of the Mental in connection with the Motive temperament, the latter being expressed rather in the prominent features, angular form, dense, though small, muscles, and positive manner.

The Motive temperament varies in its conformation, and so do all the temperaments, and one unacquainted with them in their varying characteristics is inclined to think that "quality" is something

apart from temperament, and is an indescribable inheritance that pervades the whole organization, impressing it with its peculiar constituents of coarse or fine fibre, sluggishness, or quickness or excit-



Fig. 35. Lola Montez, Countess of Lansfeld.

Motive Temperament strong, with great mental activity.

ability. For the vigorous and persistent exercise of the brain there must be, as has been intimated before, strength of physique. It seems absolutely necessary that a strong mind should be associated with a strong body, and a large body as well as a strong one. If we take a thousand men and women as we meet them on the street, and compare their weight, height, and chest measurement with the same belongings of a thousand men and women of distinguished mental capacity, the latter will average more in these respects. It may be suggested that Napoleon was short. Yes, but in his earlier days he was possessed of unusual nutritive power and a frame of marvelous endurance; and his brain was remarkable for volume as well as special developments.

Mrs. Browning, the poet, was in delicate health for many years, upward of fifteen. To maintain life was a struggle, yet she had inherited superior vital tenacity, and a mental spirit and elasticity of nerve that

^{* &}quot;Hereditary Genius."

triumphed over physical debility and sustained her almost constant exertion of literary production.

Of Hannah More a similar statement may be made. She was a most indefatigable worker with the pen, and an invalid for many years, yet endowed with elements of strength from birth that carried her into old age. These ladies were of the

and culture were thoroughly understood in such cases. The Mental temperament should be balanced by the Vital, and the motive or mechanical system should be strengthened by muscular exercise.

IN HORSES AND DOGS.

In animals as well as in men the Law of Temperament applies to organization. Perhaps we find it as well illustrated in

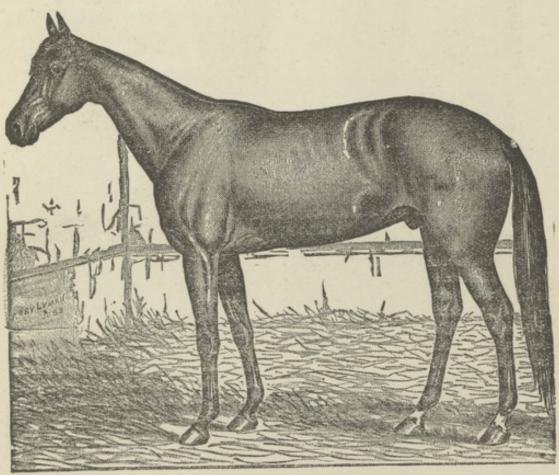


Fig. 36. JAY-EYE SEE. MENTAL TEMPERAMENT.

poetic mold. In "George Eliot," Mrs. Cross, we observe a marked impress of the Motive temperament, contributing earnestness of purpose, untiring industry that faltered never although often beset by sickness and other obstacles. For her was mainly needful the vigorous phrase-ology of prose to give definite form and directness to her urgent thoughts.

To be sure, many persons of superior endowment fade and fail because of their feeble provision of vitality, and it were well that the principles of physical growth

the horse as in any of our familiar brute companions. It does not require much insight for one to distinguish between a quick, lively horse, and one that is logy and stupid. The high bred animal is distinguished by his general slimness and symmetry; his tapering limbs, prominent and broad chest; his large, full eye, thin skin, tapering muzzle, delicate and mobile nostrils. Muscles and veins are seen in sharp expression through the sleek coat. The fiber of the great trotter is fine and delicate, though tenacious. His

muscies are small, but they are remarkable for their scrength and endurance. Such animals as Jay Eye See and Dexter, Flora Temple and Maud S., command attention wherever they are seen. Fig. 36. These have the nervous or Mental temperament in largest proportion. They contrast sharply with the heavy, slowmoving draught horse, although in his line he may be a product of careful devel-

In the shepherd dog, the pointer, and the terrier, and also in the spaniel, we find the Mental temperament predominant; while the mastiff, the St. Domingo blood-hound, and the bull-dog, the Motive temperament is strongly manifest. The noble Newfoundland has a combination of the Vital-Motive and Mental, uniting as he does half human intelligence with a fidelity and sympathy which are very opment-as the Norman Percheron or the touching, and the strength, endurance, Clydesdale, for instance. Such horses in- and vitality that make him one of the dicate the Motive temperament, the mus- much esteemed dogs. In the pug, we rular or mechanical system predominates often see the Lymphatic temperament, as



Fig. 37. Gildino, Celebrated Perchang Horse. Motive Temperament.

in them, and the Vital supplements it we sometimes see it in men. In Fig. 38,

cial expression.

well, as seen in the plump body and we see the great St. Bernard, the smooths rounded limbs, while the nervous is much haired type of that excellent animal, an less expressed. These are the animals eager and affectionate intelligence, comthat can pull heavy loads, make long jour- bined with dignity. In Fig. 39, we have neys, and keep in good condition; they the pert, impudent, and plucky terrier. are not rapid in their movements, but are In Fig. 40, the broad shoulders, thick serviceable, the working horses suited to neck, wide, low head, and massive muzzle the drudgery of work-a-day life. Fig. 37. of the sturdy bull-dog. In Fig. 41, we Among Dogs, that faithful friend of have the pretty spaniel, the pet and friend man, we find a variety of temperament, and companion of the children. In Fig. disposition, talent, build of body, and fa- 42, the Esquimaux, an intelligent, plucky and most serviceable animal in the bleak



and frigid North, where with his master he struggles for existence, and, perhaps more than any other dog, earns his meagre support. Fig. 43, shows the frowsy and spirited Scotch terrier. In Fig. 44, we have the intelligent and faithful shepherd, knowing all his master's flock, and how to protect and govern it. A man sold a part of his flock, and lent his dog to the buyer to help drive them home. purchaser shut up the dog, thinking to wean him from his home, but the dog broke out in the night, gathered out of the flock every sheep his master had sold, and started with them for home, evidently thinking if the stranger would steal him, he had also stolen the sheep.

Fig. 45, shows quite different physiognomy, that of the sporting dog, which when well trained, seems to enter into the game of hunting, according to the rules of the art. Fig. 46, the fox hound, with his sober countenance, his intelligent instinct, rendering him useful in a certain direction, and needing less training in that style of hunting than is the case with the setter and pointer. Fig. 47 shows us another variety of the St. Bernard, whose history in seeking and rescuing lost travelers in the Alps, with almost human intelligence, needs no repetition.

Fig. 48 has a bright face, and is highly endowed with the Mental temperament, while Fig. 49 is a perfect specimen of the Motive. Fig. 50 shows the Mental-Vital in predominance, sustained by abundant muscular power, and Fig. 51, last and least, the lymphatic pug, doubtless good in his sphere as a household pet; we often find in him and the coach-dog the Vital temperament excessive; a condition due to the abnormal state to which he has been accustomed, rather than a state normal to the dogs, as in relations best adapted to their health and usefulness, dogs rarely become rotund with fatty tissue. In the wild state, horses and dogs show a predominance of the Motive temperament, the necessary activity of such a life, promoting the growth of bone and musle, and this is the case generally with animals that do not hibernate.

TEMPERAMENT AS AN INDEX OF CHARACTER.

The temperamental differences being exhibited in the face and form are those characteristics which are noticeable first in a person, and they who have studied them are able to read much of a stranger's character at first sight. But many observers claim that temperament is the surest key to character; that on it depends a man's ability to succeed in life, as well as his disposition in generalwhether he is excitable or calm, active or indolent, restless or serene, capable of long and constant effort, of meeting emergencies, or adapted only to a quiet, easy routine. Whether or not we attribute so high a degree of importance to it, a knowledge of the temperaments is certainly of great value in the criticism of character. Ignorance of their influence constantly leads to serious mistakes in the relations of business, friendship, and love.

RELATION TO SOCIETY.

We think that most of the common dislikes and misconceptions of people in society result from differences of temperament. "A susceptible, nervous person looks upon the self-poised, determined man of the Bilious or Motive temperament as hardly less alien to himself than a foreigner or even an enemy. He shrinks from his cool pertinacity, his ruthless self-seeking, his bitter and determined dogmatism that is never open to conviction, even though an angel should come down from heaven. To the sensitive man he seems a sort of Christian fate or Mephistopheles. Yet this antagonism may be simply a matter of temperament, both parties being in the main estimable persons." Of this sort, doubtless, was the celebrated antipathy in the case of Dr. Fell, as expressed in the well-known rhyme:

"I do not like you, Dr. Fell, The reason why, I can not tell."

To one, however, who can read character in the contours of the body, the reason for these oppositions is not obscure. There are certain people with whom we

never become fairly acquainted in spite of the association of years; there is a bridge or chasm between us which we can not cross-somehow a disinclination to approach them that is always uppermost. In such cases it is best for us to observe the hint of nature, and not attempt an intimacy. Temperament has drawn a line between them and us which it were not well for us to seek to cross. We should, however, by avoiding intimacies in such cases not conclude that because we entertain a puzzling dislike that we should hate our neighbor. It is altogether gratis that we should take the trouble to dislike anybody without some positive pretext.

FAMILY AND NATIONAL ANTIPATHY.

Temperament has a great deal to do with the oppositions we find in history, occurring between families, tribes, and nations; and its study is an important help toward understanding the parts that different nations have played in the past.

The spirit of Shakspeare's dramas is largely dependent upon temperament. We find it well illustrated in such plays as Macbeth, Hamlet, Othello, etc. The individual peculiarities so finely wrought out in Romeo and Juliet can be traced to the discordant tempers of the houses of Montague and Capulet. The long existing antipathy of the French for the German, of the English for the French, notwithstanding their discouragement by the diplomatic courtesies of civilization, is traceable to the differences of temperamental organism in the antagonistic peoples. It is well, therefore, that in the outset of an investigation into the character of a person that his temperament be analyzed carefully; its influence in every phase of cerebral function should be borne in mind. In the correlated activities of faculties it plays a conspicuous part, and while size may be accepted as a chief principle in the expression of mental power, the influence of the physical constitution approaches so closely to it that in many cases the observer finds himself unable to determine whether it is size or temperament that is the more potent.

THE BRAIN AND SKULL PHYSIO-LOGICALLY CONSIDERED.

The human brain, by its location in the cranium, indicates something of its nature as a part of the human organization. In the earliest times observers attributed to it a most important function in the affairs of life; some beliving that it was the seat of the living principle or the soul, or had a special relation to the spiritual element; while there was a general belief that in some way it had to do with the intellect. The principal reasons assigned by ancient writers for this opinion seem to be the brain's situation in the skull and its peculiar structure and delicacy.

The knowledge of the Greeks and Romans with reference to the brain's anatomy appears to have been very scanty, and although anatomists like Aristotle and Hippocrates contributed much to general research as concerns the relations of the large organs of the body, yet very little was accomplished for the history of the special functions of the brain as a whole until modern times, and even as late as the eighteenth century, when medical and surgical science began to make great progress. Under the leadership of such anatomists as Willis, Boerhaave, Van Swieten, and Haller, the functions of the nervous system. became better understood, and insanity was clearly traced to brain disturbance; yet the attempts of these great men to explain the differential functions of this viscus were little more than speculations. Dr. Gall himself was not led, as some think, to the discovery of the physiology of the brain through its anatomy, but when he thought upon the course which was to conduct him to the history of its functions he deemed it quite necessary to occupy himself in part with its anatomy. Haller had said, "to learn Physiology without Anatomy was absurd." He attributed with just reason all the theoretical confusion with which the world had been inundated to those writers and teachers who sought to make Physiology and Medicine their vocation without having studied the actual organs of men or animals.

Greeks and cerebrum by the Latins. Today a division of this mass is recognizedone part being called the cerebrum and the other the cerebellum, or "little cerebrum." The first is situated anteriorly, and is by far the more voluminous; the second lies posteriorly, and in man under the cerebellum, as shown in the illustration. Fig. 52.

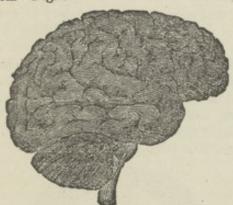


Fig. 52. CEREBRUM AND CEREBELLUM. Side View. The cerebrum, to which allusion is generally made when we speak of the brain, is provided with folds or convolutions; the structure of the cerebellum, as is noticeable, is quite different, being composed of layers, as shown in the figure.

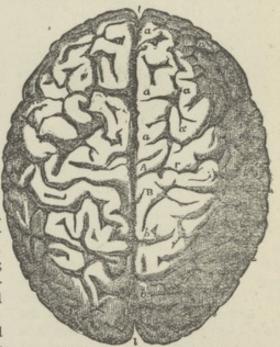
At the base of the brain another and rather important part is seen, the medulla oblongata, or oblong body, which connects the brain with the spinal cord, which in its turn is distributed in the canal formed by the articulation of the several vertebræ belonging to the spinal column.

THE CEREBRUM

is composed of two grand divisions nearly equal in size, each having an oblong form called hemispheres. They are separated by a deep channel in which lies a fold of the dura matter or membrane that covers the brain exteriorly, this fold being known as the falx cerebri, or scythe-like process of the dura mater.

The hemispheres in their turn are struct-

The whole mass included in the skull comparatively simple form of brain. They of man was called encephalon by the have also made a further division of the hemispheres into lobes. There are two classifications of the lobes in use-one defining three, the older, and one designating four, the later classification. older describes, first, an anterior lobe lying in the skull over the orbits or eyesockets; a middle lobe, which occupies the central space or fossa; a posterior lobe, occupying the back or occipital xxxx



Top View. Fig. 58. Hemispheres.

of the cranium. The later division into four lobes is (1) the frontal lobe, (2) the parietal lobe, (3) the occipital lobe, and (4) the temporal lobe, each corresponding to the relation of the parts of the skull named, and their boundaries being determined for the most part by the more permanent fissures or openings between convolutions, viz.: the fissure of Rolando is taken to mark the superficial extent of the frontal lobe; the fissure of Rolando and the perpendicular fissure bound the superior extent of the parietal lobe; the perpendicular fissure being the posterior boundary and also dividing the parietal urally subdivided by the convolutions; lobe from the occipital; and the fissure and, for the sake of convenience, anatom- of Sylvius, being the upper boundary of ists have mapped these convolutions ac- the temporal lobe. This last fissure, it cording to a standard that is based upon a will be seen in the illustration, has a very

and more prolonged convolutions from of Varolius, "from the old anatomist who those in the lower central region or tem- described it. poral fossæ.



Fig. 54. DIAGRAM OF PRINCIPAL PARTS OF BRAIN. THE CEREBELLUM.

The simplest examination of the cerebellum suffices to show that its structure is composed of layers; it also is divided into hemispheres, and the hemispheres again into lobes. If a lobe of this organ be cut perpendicularly through its centre, a peculiar marking or disposition of the white and gray substance composing it is observed. To this marking, on account of its resemblance to the branches and foliage of a tree, has been given the name arbor vitæ, or tree of life.

The hemispheres of the cerebrum are intimately associated by a band of white fibrous substance called the corpus callosum, or callous body, that is readily exposed to view by separating them with the fingers from above, and the cerebellum is connected with the cerebrum by means of connecting bands called crura; two of these ascending to the cerebrum longata, which is the capital, so to speak, various segments we have mentioned, and the process until a new skull had been

definite position, and separates the upper is therefore not inaptly called the "bridge

THE MEMBRANES.

The dura mater, or "hard mother," is a tough membrane that covers the whole brain and lines the interior of the skull, and is so elevated by the cerebral convolutions in life that they form impressions or grooves in the interior plate of the skull and also mark the orbitary or eye plates and temporal fossæ; so close indeed is the correspondence, that if a plaster cast of the cranial cavity be made, it will be found to have the form of the brain as it appears covered by the dura mater, the arteries that are distributed through the membranes being also exhibited in a striking manner.

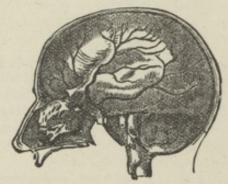


Fig. 55. BRAIN COVERED WITH DURA MATER.

Besides the dura mater, there are two other membranes, one directly in contact with the brain proper, called the pia mater, or "soft mother," which is a very thin, transparent, and delicate membrane; it sinks down into the folds of the convolutions and serves as a conveyance for the blood-vessels. Over the pia mater is a layer of still thinner membrane called the tunica arachnoidea, because of its resemblance to a spider's web.

It is the dura mater that secretes the and two descending to the medulla ob- bony material of the skull and is analogous to the periosteum or membrane-covof the spinal column. Two other bands ering bones in general. If the entire skull of the crura blend together in front, of a healthy man could be removed in such forming the pons varolii, which lies di- a manner as to leave the dura mater unrectly above the medulla; the pons con- impaired, the latter would begin at once stitutes the general bond of union of the to form new bone, and would continue formed. The process of absorption and repair is going on in the substance of the skull continually, and any marked change in the form and size of the brain is indicated more or less on the surface.

STRUCTURE AND RELATIONS OF THE SKULL

The average thickness of the external layers of the cranium rarely exceeds three-sixteenths of an inch, while in organizations of very fine quality it has been found to be less than one-eighth of an inch, and then of densely compacted tissue. Hence the anatomical relation of the cranium to the brain is that of a thin capsule or case nicely adjusted to the perfect protection of the delicate substance of the latter. This bony case is not completely formed, i. e., does not inclose the brain at all points until several months or a year after birth, and as the brain may continue to grow for upward of fifty years, nature has admirably provided for its expansion by constructing its bony envelope in eight sections, so matched or fitted together by indentations or sutures, that they can expand in correspondence with the brain development and its changes. Fig. 55 is a representation of the brain as it appears in its natural position, covered by its membranes. In life the entire cranial cavity is filled with the brain and its membranes, a fact clearly enough shown by injuries to the head that have detached a fragment of the skull, when it has been found that light pressure would cause the furrowed surface to rise up through the opening. Fig. 56 is a diagram representing the skull separated into its different parts.*

These parts or sections are named as follows: the frontal (1), parietal (2), temporal (4), occipital, sphenoid, and ethmoid bones. These bones are united to one another in a very firm manner, by a sort of dove-tailing; the edges of one fit exactly those of the adjoining bone; and the seams formed by their union are called sutures.

The frontal bone as shown by the engraving forms the forehead, a part of the roof of the nostrils, and the orbits of the eyes. In childhood it is made up of two principal bones that gradually grow together; in rare cases, however, it remains double through life. Joined to the frontal bone by the coronal suture, which runs



Fig. 56. NATURAL SECTIONS OF SKULL,

over the top of the head, are the two parietal or side bones, which form the greater part of the upper and lateral portions of the skulll. The line of union between these two bones is known as the sagittal or arrow-like suture.

The temporal bones, as their name implies, are situated at the temples, and around the openings of the ears, and are joined to the parietal and occipital bones by sutures. The lower back parts of these bones form the projections noticed directly behind the ear, which are called the mastoid processes. In these the apparatus of hearing is situated.

The occipital bone forms the base and back part of the cranium, immediately above the neck. In the central region of this bone a protuberance more or less marked is found, called the "occipital spine."

The sphenoid, or wedge-like bone, is situated in the anterior of the temporal region; and the ethmoid, which means sieve-like, is a spongy cellular bone, situ-

^{* &}quot;Indications of Character."

of the nose.

Sir Charles Bell observed that the "bones of the head are moulded to the brain, and the peculiar shapes of the bones of the head are determined by the original peculiarity in the shape of the brain." There are, however, certain parts of the skull that are thicker or thinner than other parts; for instance, it is thinner at the squamous or scaly portion of the temporal bones, and in the supra-orbitar plates which form the roofs of the sockets of the eyes; and it is thicker at the ridges of the frontal bone and at the sutures than at other parts of the skull. The forehead is well protected against injury, as one can sustain a very heavy blow without serious damage in that part. The occipital spine and the mastoid process are generally abrupt and angular, and easily distinguished from the broad, rounded swell corresponding to cerebral development. The integuments covering the skull are of uniform thickness, except at the occiput and the temples, where the muscular attachments are particularly elaborated, but experience enables the practical observer to detect and make due allowance for variations in thickness both of the bones and integuments, as they depend much upon temperament and race, and do not form very serious obstacles to obtaining a sufficiently accurate idea of the size of the organs from the exterior form of the skull.

THE FRONTAL SINUSES.

One of the objections most persistently levelled at Phrenology is founded on the frontal sinuses. Sir William Hamilton was very prominent in this regard, insisting that the existence of these sinuses was an insuperable objection to Phrenology in general, which, as Mr. Combe remarked, "was about as logical as to speak of a snow-storm in Norway obstructing the highway from Edinburgh to London."

There are two small cavities in the frontal bone near the root of the nose, formed by the separation of the two plates or tables that form the bone of the skull.

ated between the eye sockets at the root Fig. 56. These are the frontal sinuses; they do not extend above the base of the brain till about the time of puberty, and vary much in extent in adults. Wher very large they may cause some uncertainty in regard to the size of three or four organs located in their vicinity. The difficulties which the frontal sinuses are supposed to present to the estimation of the size of the few organs situated immediately behind them, may be overcome, to a very great extent, by practice and observation. A large frontal sinus is indicated by a prominence, usually abrupt and ridgy, on the skull directly over the inner angles of the eyes; this prominence is due to the projection or swelling out of the outer table of the cranium, while the inner remains almost entirely unchanged.

THE BRAIN SUBSTANCE.

Returning now to the brain we find that its mass is constituted for the most part of two substances of vastly different character: viz., the cortical gray or ash. colored matter, and the fibrous or white matter. The former is singular in sonstitution, being made up chiefly of cells or vesicular nuclei largely supplied with blood; the other is firm, inelastic, and tubular, much less vascular than the medullary substance, and constitutes nearly the whole of the nerves and the greater part of the spinal cord.

The gray substance is the part that has a special relation to mental life; in it lies the source of nervous power. Sometimes it is called the "cortical substance," from cortex, Latin, meaning, bark or external, because of its distribution in the convolutions. It lies also in the large ganglia at the base of the brain, and in the centre of the spinal cord for the greater part of its length, showing a singular cruciform appearance there.

The white or fibrous substance is constituted of exceedingly delicate fibres that average but the 10000 of an inch in diameter, whose function is to communicate impressions sent to or from the vesicular matter. But their function is differential and several, and accordingly they are distributed into three kinds, viz., the efferent, or motor; the afferent, or sensitive; and the commissural, or connective fibres.

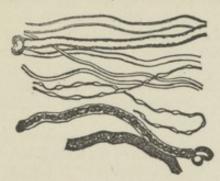


Fig. 57. BRAIN FIBRES.

The essential elements of the gray matter are cells and vesicles containg nuclei and nucleoli; these being rather dark in color and generally globular, at times very irregular, and varying in size from the

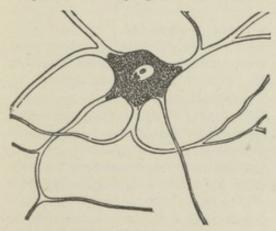


Fig. 58. A MULTIPOLAR CELL.

ssoo to the sto of an inch in diameter. The largest cells are peculiar in constitution, being what is called "caudate," on account of delicate tail-like processes extending from their margins, one or more of these processes conferring names, such as unipolar, bipolar, multipolar cells, etc.

CELL FUNCTIONS.

These brain cells are found in masses chiefly in the convolutions-a fact which points at their relations to the conscious life of man; they are grouped also in the cerebellum and ganglia in the base of the hemispheres. Physiologists are generally well agreed that it is in the convolutions mental action lie, so that all impressions made upon the organs of sight, taste, smell, hearing, etc., are transmitted thither and become apparent to the consciousness. Some observers are inclined to regard the cerebellum as a store-house for nerve force, but aside from the view of its relation to mentality entertained by phrenologists, there is much difference and conflict of opinion on the relations of the cerebellum to consciousness and motor life.

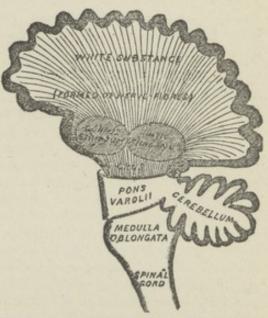


Fig. 59. ROUGH DRAWING OF BRAIN DISTRIBUTION. (MODIFIED FROM LUYS.)

The relation of the medulla oblongata to the convolutions is close and intimate; the fibres proceed directly from it through the great ganglia, and passing upward, forward, and backward, come into communication with the superficial folds. (See Fig. 59). It can not be said, however, that sensations received from without travel in a continuous tubule to reach the cells in the convolutions, but they are passed from cell to cell by means of connective fibres, and finally reach their destination. It is thought that the object of this arrangement is to allow of independent action for certain collections of cells in case the impression is not of the class that requires the exercise of volition or thought proper. A great part of the that the centres for consciousness and actions of man are performed without conscious recognition-in other words, are governed by what is known as "reflex action." In walking, eating, and in the doing of many things that belong to every-day life, the muscles of the body act automatically; we get into habits of doing things which at first were subject to direct guidance of the will, but later are done without notice or mental co-operation. So, too, important functions essential to physical life are performed by organs under the control of this "reflex action"; for instance, the beating of the heart, respiration, digestion, and the other functions in the vital economy are thus stimulated.

IS EACH CELL A CENTRE?

The structure of these minute vesicles has been an object of careful study by many observers in late years, and the conclusion reached in regard to their use is that, aside from their properties of generating nerve force and muscular action, they have a variety of parts to perform, and their different characteristics of form and structure justify such conclusions. Some physiologists go so far as to say that each cell in the brain possesses a special individuality, and so exercises some particular control, either in the physical growth and development of a special region of the body, or in the manifestation of special moral or intellectual ideas. In the latter case location in a particular part of the brain bears a relation to the class of ideas.

Luys, a French observer of authority, says: "Imagination is confounded when we penetrate into this world of the infinitely little, where we find the same infinite divisions of matter that so vividly impress us in the study of the sidereal world; and where we behold mysterious details of the organization of an anatomical element which only reveal themselves when magnified from 700 to 800 diameters; and with them this same anatomical element repeats itself a thousand-fold throughout the whole thickness of the cerebral cortex. We can not help being seized with admiration, especially when

we think that each of these little organs has its autonomy, its individuality, its minute organic sensibility; that it is united with its fellows; that it partakes in the common life, and that, above all, it is a silent and indefatigable worker, discreetly elaborating those nervous forces of psychic activity which are instinctively extended in all directions and in the most varied manners, according to the different calls made upon it."

A German observer estimates the number of these cells in the brain at 300,000,000,000, and that upward of 50,000,000 are broken down and destroyed daily in the functional operations of the mental organ, so that in the course of two months the whole brain may be said to have been reproduced.

THE GRAY MATTER AND INTELLI-GENCE.

In man, who stands at the head of animated nature, the convolutions of the brain are most numerous, and as we descend in the scale of being they become less and less marked, until in the inferior orders of animals they disappear altogether. Even among individuals of the human race, although there is a similarity of plan throughout in the structure of the brain, much difference in the number and depth of the convolutions is found, and also in the quantity of gray substance—which appears to have a special relation in itself to mental capability.

The disposition of the brain in folds or convolutions appears to be ordered for the purpose of giving this gray matter more extent of surface, since it completely invests the white or medullary substance, following the folds in their tortuous course—and being distributed with much uniformity—in some of the convolutions, especially the frontal, there are three layers of gray matter, but generally two only.

The division of the brain into hemispheres is an ordinance of nature that corresponds with the double constitution of the other parts of the human body in general; as the nerves are disposed in pairs and the organs of sense double, so the brain is

double, and every sensation conveyed to the brain is conveyed to the two hemispheres; and the operations performed, according to Sir Charles Bell, must be done in the two lateral portions at the same moment. Later researches show that one hemisphere, usually the left, is the more exercised in the performance of mental operations, and this accounts, in one way, for disparities in size and development of the two sets of organs. This superior growth of the left hemisphere is analogous to the larger development and more skilful training of the right hand, and in fact of the right side of the body, as a whole, since the fibres as they proceed from the hemispheres downward to and into the spinal cord decussate or cross, and thus produce effects of cerebral excitement in parts of the body opposite to the hemisphere in which the excited brain centre lies. Hemiplegia or paralysis of one side of the body, to which allusion has already been made in a previous section, is one proof of this crossed action.

COMPARATIVE GROWTH.

The average weight of the brain in man is for the male about 50 ounces, and for the female about 45 ounces. According to Tiedemann, the female brain, although absolutely smaller than that of the male, is larger when compared with the size of the body. There is great variation in the matter of size and weight; in some instances the brain has attained over 65 ounces, as in the case of the Russian novelist Tourgenieff, who died in 1884. He possessed so extraordinary a head that he could not find a ready-made hat large enough. After death his brain, it is said, exceeded 65 ounces. The eminent French naturalist is credited with 641 ounces. Daniel Webster's brain was estimated at 631 ounces. The English theologian and writer, Abercrombie, is given 63 ounces, Spurzheim's brain weighed 55 ounces.

Men who have not figured conspicuously in life have left on the records of medicine large weights of brain, but the facts so far as known concerning them do not discredit the principle that size bears

a relation to mental power. Quality is quite as important as quantity, so that a large brain does not of itself constitute a great brain. In weighing the brain, the whole mass as contained in the cavity of the skull, cerebrum, cerebellum, and basilar ganglia are included; we are of opinion that it is the cerebrum that should be primarily considered when size and weight of brain are compared. Dr. Flint's deductions from consultation of many authors is, "that when brain substance exists in a normal condition, intellectual phenomena are manifested with vigor proportionate to the amount of matter existing." *

According to M. Broca, the capacity of the skull increases from period to period in a race that is in a stage of development, and his opinion is founded on a series of investigations made in cemeteries of France, from the thirteenth century to the present time. A comparison of the heads of the savage, barbarous, and civilized races shows that the last have the most volume of brain. The New Caledonians. Negroes, Indians have smaller heads than the Chinese, Japanese, and Turks; while these have smaller heads than the Germans, Greeks, and English. "Comparative anatomy," says Vulpian, "shows us that the cerebral lobes receive an increase in volume in accordance with the development of intelligence." †

The brain reaches its full development anatomically about the age of 20 years, but may continue to increase in size and weight until 40 or more years, according to the health and pursuits of the individual. After the fiftieth year it usually begins to decline in most persons, and there is corresponding decline in mental powers. The minimum weight of a healthy brain is about 31 ounces. A person thus organized may be fitted for filling the commonest duties of life, but he will not exhibit any special capability; his movements will be

^{* &}quot;Physiology of Man," by Austin Flint, Jr., M.D.

^{† &}quot;Etudes de Biologie Compares." by Dz. Gaetan Delaunay, Paris.

characterized in the main by simple routine. Below 31 ounces we find varying degrees of feeble-mindedness, imbecility, and idiocy; in the last, not hydrocephalic pr rickety, the brain weight is but 25 ounces or less.

The position of the cerebellum when considered in reference to the cerebrum, is regarded as having a relation to intelligence; the more it is covered or concealed by the cerebrum the larger the brain and the higher the mental capacity. In the lower orders of mankind, as in the Papuans and Bushmen, the cerebellum is found to project a little beyond the posterior margin of the cerebrum; in the ape there is an analogous relation; lower down in the scale of organization, the cerebellum is observed to protrude more and more, and the articulation of the head with the trunk undergoes a change of position in correspondence with this, until in the lowest animals cerebrum and cerebellum lie horizontally.

THE RESULTS OF EXPERIMENT.

Neurological science has had for many years eminent observers who have given exclusive attention to the brain and its physical relations. But ten years (now twenty) ago it was discovered by Fritsch and Hitzig, of Germany, that the brain is electrically excitable, and this new fact at once imparted a powerful impulse to experiments on living animals. The results of a course of such experiments which have been published by Dr. David Ferrier, of King's College, London, are exceedingly interesting to the student of Phrenology, because they constitute a physical demonstration of the fact that the brain is an assemblage of centres subserving distinct functions. To be sure, the results which Ferrier has tabulated relate simply to the mechanical organism; but the evident impossibility of obtaining purely mental reponses by the galvanic excitations of an animal, which had been rendered unconscious by anæsthesia, can not impair the observed facts of mental manifestation.

Fig. 60 is taken from Prof. Ferrier's work, and represents the left hemisphere of a monkey's brain with the centres or regions numbered, which are said to be productive on irritation of certain muscular movements. 1, for instance, is related mechanically to "advance of the opposite hind limb as in walking." 3 has to do with "movements of the tail, generally associated" with other movements. 9 and 10 are related to "opening of the mouth with protrusion (9), and retraction (10) of



Fig. 60. Motor Centres in Monkey's Brain. the tongue." 13 and 13, cause "the eyes to move toward the opposite side, with an upward or downward deviation, according as the electrodes are on 13 and 13. The pupils also generally become contracted. 14, "Pricking of the opposite ear, head, and eyes turn to the opposite side, pupils dilate widely."

Here (in 13, 13, and 14) we have movements which are suggestive if of anything emotional, of watchfulness, caution, and slyness; and it is curious to notice that the region designated by the numbers are analogous to the locations of Cautiousness and Secretiveness in the phrenological order.*

A SURGICAL CASE.

A test of the application of these results was recently made in London, and with gratifying success. A man suffering from certain paralytic difficulties was brought to Hughes Bennett, an eminent English surgeon, who examined him and concluded that his disease was probably

^{* &}quot;Brain and Mind."

due, in great measure, to a tumor in a certain part of the brain, and that its removal might be followed by immediate This principle applies with equal force to relief.

This principle applies with equal force to muscle. Horses of similar breed we match

The patient in question was informed by Dr. Bennett that he had one chance for his life through an operation upon his brain, and that immediate relief might follow with recovery from the painful malady that had brought him to the verge of death. The man offered himself for the operation, which was performed in the University College Hospital, London. An opening was made in the head of the patient, at the place marked by Dr. Bennett, and a tumor about the size of a walnut found. which was removed without difficulty. The patient rallied quickly after the operation, and is now convalescent. This case is hailed by physicians generally as an important addition to the pathological evidences in favor of organic centres in the brain convolutions, and also dates a step in surgery that is of the highest promise.

The annals of Phrenology contain many cases of fully equal interest, some of which we have already had occasion to cite in illustration of principles maintained by our system.

SIZE THE MEASURE OF POWER.

Another prominent doctrine in Phrenology is that the size of the brain in general, as well as that of each of the organs, is the measure of mental strength; of course, other conditions must be equal, such as age, state of health, quality of organism, temperament, and education. This law holds good in respect to things in the material universe; we measure the strength of iron and wood and other material by its size. It would not do, however, to compare hickory with chestnut wood, nor wood with iron, nor a silk thread with one made of wool, size for size. If we were to construct a cart wheel and put in alternate spokes of oak and chestnut timber of equal size, we know that every piece of chestnut timber would break down the first time it was heavily oaded; the oak, however, as if in astcuishment, would seem to look on and wonder what had befallen its weak brother. muscle. Horses of similar breed we match according to size, and men are estimated as strong or weak by the same rule. If we select indiscriminately fifty men of large size and fifty men of medium size. the large men will have more physical strength than the small men. The large brain is no exception to this rule. If the health be good, the quality of the organization fine, and the body large enough to supply all needed vitality, and the brain be large, we look confidently for strength, clearness, and force of mind. This being true of the whole brain, it is true of each organ of the mind.

When we find one organ large, and others less, we infer their relative strength by the size of the organs respectively. We find sometimes a large brain with a weak body; it is like a large engine with a small boiler. Occasionally we find a man of very fine quality of organization with a brain of medium size, and he manifests more talent or character, with that active brain, than many another man with a dull nature who has a larger brain. The study of the temperament or quality must also be kept in view in the estimation of mental activity and power. Our qualification is, "other things being equal," size is the measure of power. Our readers will remember the reference to the game chicken and the Shanghai.

HEALTH.

A large and healthy body is very important to the support of the brain. A man may do a vast amount of labor with a brain of average size, provided he has the brain-power and vigor of body sufficient to keep the mind hard at work without exhaustion. The late Thomas H. Benton was for thirty years in the United States Senate, and among strong and laborious men he was one of the most laborious. His strength and health of body were such that he was able to keep his brain, which was only of medium size, in such vigorous action, that few men coul?

power of attainment, but he could delve classifying his knowledge for application, twice as large in body as the eagle. We

surpass him in the amount of labor accom- fourth as large, and the stupidity of the plished. Other men with larger brain former and the sagacity of the latter are could make a single effort beyond his proverbial. We have the skull of a bald eagle, the cerebral cavity of which is more on in a practical track gathering facts and than double that of the goose, which is

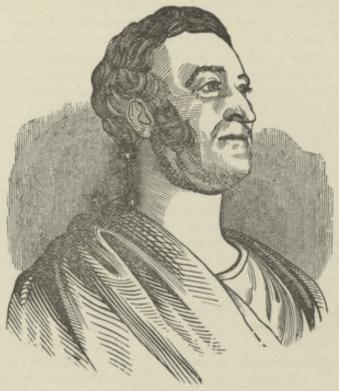


Fig. 61. THOMAS H. BENTON.

and thus surpass in the amount of labor have the skull of a horse which weighed accomplished, in a given series of years, many men who were his superiors in an occasional effort of logic, imagination, or originality. He was, therefore, a great man, on account of his strength, endurance, memory, practical knowledge, and common sense; not for invention, originality, or breadth of logical ability.

When we compare the brains of different birds and quadrupeds, we find mental activity in proportion to the size of the brain and its relative size to the body. The fox has four times as much brain as the woodchuck or ground-hog, while their bodies are nearly of equal size, and all know the vast difference between their re-

1,400 pounds, and find by measurement that the cerebral cavity contains one pint, but the skull of a common-sized man contains about four pints, while his body weighs 150 pounds, which fact indicates that man has more than thirty-seven times as much brain as the horse in proportion to the weight of body.

Those men who have gained distinction in the learned professions, in great social or moral reformations, and who take the lead of their contemporaries in mechanism, art, trade, or war, have had heads of larger size than most other men. If we look into a legislative body or into a convention of clergymen, teachers, or politispective mental activity. The brain of cians, we find larger heads than we do the turkey is one-third less in size than among the average of persons who have that of the crow, whose body is not one- not made sufficient mark in society to indicate their capacity to be representative tions of the earth; the European head is

and leading mer. Among mechanics, we much larger than that of the Hindoo, the find the leaders and superintendents more Chinese, the New Hollander, the African, largely endowed with brain than those or the Peruvian Indian. The subjugation who occupy the subordinate positions. of millions of Hindoos by 50,000 English-Those men who rise from obscurity, over- men, the British conquests in China, and

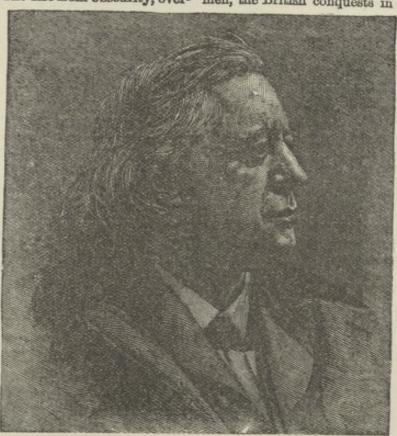


Fig. 62. REV. HENRY WARD BEECHER.

and H.W. Beecher, in their day, were conspicuous examples.

This fact that size of brain is the measure of power is of such universal recogninition that whenever a person of active temperament and large-sized head appears. even though a stranger, he is accounted a man of mental power, and the doctrine in question is thus endorsed by the observation and intuition of mankind.

This truth is further made manifest by bodies to support them. reference to the heads of the different na-

coming all obstacles, and finally stand that of a handful of Spaniards over forth in victory in the various fields of whole nation of the Peruvians, and simienterprise, have more than average-sized lar triumphs in Mexico; the enslavement heads. In no relation in life is this doc- of the African by the English races in trine more clearly apparent than among Europe and America, is a significant proof those who take eminent rank as thinkers that large heads are more powerful than and effective public speakers. Webster small ones, and that those nations having small heads are easily conquered and governed by those having large ones, and a more favorable endowment of brain. The Indian tribes of North America that were easily conquered by the colonists had heads of moderate size, with diminutive intellectual endowment, while those that have struggled to the death to protect their homes and hunting grounds had larger heads, and vigorous, well developed

In civilized countries, especially among

aristocratic governments, education, family, succession, and other circumstances, place third-rate persons in power, and elevate them to conspicuous positions; but when a Hampden or a Cromwell, a Milton, a Shakspeare or a Napoleon, emerge from tribes have for rulers men in the full sense

had larger heads as a whole, but they were more favorably developed in the forehead or intellectual region. This, joined with their great force of character, raised them above their fellows. Thus the wild Indian



Fig. 63. DANIEL WEBSTER.

muse or startle it by their genius and power, such men will be found not only having large heads, but those fine and powerful elements of body that favor greatness.

Among the aborigines of North America personal prowess in war has been necesmary to distinction, hence the chiefs have larger heads than the people of their tribes generally ; Osceola, Black Hawk, and Big Thunder are examples. From examination of their skulls, or busts taken from life, these chiefs are seen not only to have

obscurity and entrance the world by their of the word, with bone and brain and brawn, though they do not compare in intellect with the civilized races. With them no third-rate lawyer or politician slips into elevated station through the machinery of "regular nominations," base wire-pulling, and party drill. Nor do they succeed to power, with neither brains nor ability, from some imbecile, half demented royal

CAST OF NAPOLEON'S HEAD.

Persons who seem to take pleasure in raising objections to Phrenology, sometimes have the stupid audacity to assert that Napoleon's head was not large.

In Blackwood's Magazine for December, 1857, there was an article entitled "Phrenology in France," in which the writer reviews the "Medical Essays" of M. Louis Peisse. The argument employed by the reviewer, and the quotations he makes, appeared to us so remarkable as to deserve some attention; hence we wrote in the Phrenological Journal for 1858 an examination of this subject, the substance of which we here copy in the words of the writer on the cast of the head of Napoleon, which are palpably so erroneous, we cannot permit them to pass unrefuted. We quote from the review:

"Let us, with M. Peisse, examine the case presented by Napoleon. A few hours after his death, a cast of Napoleon's face and the anterior half of the skull was taken by Dr. Antomarchi. It is not often that the actual skull (a cast of the head) is thus offered to our inspection. In Napoleon's cast it is greatly to be regretted that we have only half the skull (head). That half comprises, indeed, the greater number of the phrenological organs, and all those of the higher faculties, but it is a pity we have no trace of the others. But what says the cast? The head is decidedly a small one. It is, however, extremely well proportioned. Its circumference being 20 inches 10 lines (French measurement), its dimension is by no means re-M. Peisse has not explained how he arrived at this precise measure-ment in the absence of the back part of the skull; but from the specific size given, we presume he had some positive data."

How very easy of belief is this writer in Blackwood, first telling us that "only half of the head was taken," and then adds that M. Peisse gives the "specific size." How did he get it? He simply guesses at one-half of the head and is precise to the twelfth part of an inch.

Now we have a word to say about this cast and those measurements. The "French measurement" given in the essay as quoted in Blackwood, does not correspond with the English and American inch. The French inch is composed of 12 lines, and is equal to 1.15 inch English. So that 20 inches 10 lines French, given from the half guessed at size of Napoleon's cast, is equal to 22 inches English.

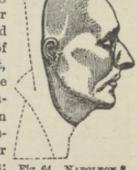
If this estimate were true, it utterly refutes M. Peisse's idea of a "decidedly small head." Twenty-two inches in circumference is not only not small, but is considerable above the average. The writer of this has measured professionally and recorded more than 250,000 heads, and any one curious to examine these records would be satisfied in ten minutes' examination that 22 inches is not small.

By his showing, therefore, Napoleon's head was of full size at least. But this is not all. We have in our collection this same cast of the head of Napoleon taken "a few hours after his death by Dr. Antomarchi," his friend and physician, and we will now proceed to give some measurements, which any friend or foe to Phrenology can verify upon the cast itself.

This cast, fortunately, covers something more than half of the head. It goes back of the ears, and shows their outline and their opening distinctly. The opening of the ear is the central point of development, and from this phrenologists predicate their measurements, or rather from a point half way between the openings of the ears at the medulla oblongata.

That the reader may see how this wonderful cast looks, we give an engraving of it which was photographed on the block

for the engraver. This shows a long and massive anterior lobe of brain, and from the opening of one ear in this cast, to the opening of the other over Individuality, or the region of the brows, it measures 141 inches; over



Causality 14% inches; Fig. 64. NAPOLEON.* over the top at Veneration, 15%. The

^{*} The shaded line just behind the ear shows the original cast by Dr. Antomarchi; the dotted outline of the pedestal and back shows what has been added to balance and strengthen the cast and make it stand up.

This cast, taken after death, shows the emacinted face of the great Napoleon, with its sunken eye, fallow cheek, open mouth, and deathly expression.

thead measures in width just over the opening of the ears $6\frac{1}{2}$ inches, and therefore if the entire back-head were cut off at the opening of the ears the head would measure $14\frac{1}{4}+6\frac{1}{2}=20\frac{1}{4}$ inches. He had some back head, and whatever he had would add to $20\frac{1}{4}$ inches so much as it measured, at least we think $3\frac{1}{4}$ inches, giving 24 inches as the circumference.

Now any man who calls these measurements small, knows less of the size of heads than one should do who attempts to write or speak on the subject, and let it be remembered that around the forehead there is no enlargement of the cast possible by way of hair, as there would be from the ear over the top of the head.

By filling the back-head, so as to make it appear of a proper shape for a well balanced head, the measurement would be fully 231, and this was doubtless less than the real size of his head. The intellectual region at all events was large, as any one may ascertain by measuring the foreheads of eminent persons having large heads, as we will now show by some corresponding measurements which are open to inspection at pleasure in our cabinet. Our cabinet collection is composed chiefly of real skulls, and casts of heads and skulls, not models made up according to the artist's fancy. To these we now appeal and proudly abide the result.

Names of persons, the casts of whose heads were examin- ed.	Size from ear to ear over Individuality.	From ear to ear over Firmness.	Size around the head.
Lord Wellington Lord Eldon Wm. Pitt Wm. Cobbett M. P. Rev. Dr. Chalmers. Henry Clay John Quincy Adams Daniel Webster Rev. Mr. Landis Canova Thomas H. Benton Dart of Burns' skull Allowing one inch for scalp	18¼ 18 18¼ 18¼ 18¼ 18¼ (12¼)	Back of cast broken. 14% Front only taken. 15 Front only taken. 14% 15 15 Front only taken. 15 14 15 15	28 1/4 28 1/4 28 1/4 20 20 20 20 20 20 20 20 20 20 20 20 20
Average about	14%	15 15½ Esti- mated f'm front.	23%

Having thus shown the size of head and of the anterior development of some of the most eminent contemporaries of Na-

poleon, and finding no head in the entire list measuring as much as his from ear to ear around the lower part of the forehead, except the single one of that intellectual giant Rev. Dr. Chalmers, and since the average measurement of the twelve cases is 134 inches, and that of Napoleon is 144 inches, and since the average circumference of all the full heads is 231 inches, it becomes a proper inquiry how large Napoleon's head would have been taking as a basis the comparative size forward of the ears. The question in arithmetic is simply this: If the heads of those men we have given average 131 inches from ear to ear around the torehead, and 231 in circumference, how many inches in circumference should Napoleon's have been, the forehead of which measures 141 inches? The solution of this plain problem gives 25 inches as the circumference. We do not claim that Napoleon's head was really 25 inches in circumference, because we believe his frontal or intellectual development was relatively larger than his social or back-head group of organs, as compared with heads generally. The Rev. Mr. Landis, in our table, the circumference of whose head by a careful personal measure. ment from life, shows 131 and 241 inches, weighed 245 pounds. Napoleon's weight at 23 was only 120 pounds, and he was known as the "little corporal," though later in life he became stout, and his weight was greatly increased. But Napoleon, as all confess, had a remarkably dense and fine grained organization, and his intensity of thought, and tenacity of endurance in all respects, were almost without parallel; showing conclusively that the quality of his constitution, the brain included, was far superior to that of most men.

In the table before us we have introduced a galaxy of eminent and preeminent persons, the superior quality of whose organizations none will dispute, and we find Napoleon, whose head M. Peisse, backed by Blackwood, attempts to palm off upon the world as "decidedly small," while in reality he stood forth the peer of Chalmers and the superior of all the rest in the development of the intellectual half of the

brain. The "Iron Duke," who contested manowski, who died in 1858, aged 88 England," and a man of distinguished ability, had 13 inches; William Pitt, Earl 13; William Cobbett, a British statesman had 131; Canova, the sculptor, 131; Robference, and by adding an inch for scalp, doubtless very near the true dimensions.

Then we have the gallant orator and statesman, Henry Clay, with 131; ex-President Adams, "the old man eloquent," the scholar and statesman of whom any age and country might be proud, with 13 inches and 221 inches for the size; Daniel Webster 131, and with a head measuring over 24 inches; Col. Benton, a power among men in his day, has 131 by 23 inches.

Every one of these heads is above the usual size, and most of them belong to the largest class, yet every one of them is smaller in the forehead than Napoleon, except Chalmers, which measured the same. We find in the review before us this remarkable passage, "Out of every ten skulls half of them would present a circumference 20 to 21 inches," French measurement, that is to say as large as Napoleon's, which M. Peisse makes to be 22 inches, English measurement. The statement that one-half the heads are 22 inches in circumference, is by no means true, and among the people of France it is signally untrue.

The question of size is now at least before the reader, and we have conclusively shown that the investigation vindicates Napoleon and the science of Phrenology most signally.

We have, however, a most excellent witness to introduce, whose testimony rela- its advocates are confident that any honest tive to the size of the living Napoleon's investigator will reach the conclusion that head we regard as a clincher. This wit- size of brain, if the quality be considered, ness is no less a personage than Col. Leh- is the measure of power.

with him the field of Waterloo, has a fore- years. He entered the military school head 134 inches, half an inch less than soon after Bonaparte, was with him in all that of Napoleon, which measured 141. his wars, fought over one hundred battles Lord Eldon, "Lord High Chancellor of under him, that of Waterloo included, was a confidential adviser with the Emperor, and always near his person. We of Chatham, the orator and statesman, had made the acquaintance of Col. Lehmanowski about 1840, and in 1843 he spent half his time in our office for weeks toert Burns, a cast of whose naked skull gether, and as everybody old enough to shows 121 in forehead and 221 in circum- remember knows, he was lecturing through this country on the character and we have 131 for the frontal measurement habits of Napoleon and Josephine. In reand 231 for the entire circuit, which were gard to the size of his head Col. L. told us that by mistake he once put on Napoleon's hat and it was entirely too large for him, and the Colonel's head we know by actual and critical measurement to be 231 inches. Napoleon's therefore must have reached nearly 24 inches where the hat fitted it. This fact was communicated to us by Col. Lehmanowski himself in 1843, and published by us in the "Phrenological Almanac" for 1846, before any question had been raised about the real or relative size of Napoleon's head. We have now demonstrated by the cast the large size of the forehead, and comparing this with other heads known to be large, we have shown that the back-head of Napoleon must have been large also, and by the positive testimony of his bosom friend have proved the fact that his head was more than 231 inches. What more can friends desire? What more can critics demand?

We reproduce this subject at this time with the more pleasure because, occasionally, some person comes into our office and has the audacity to talk about Napoleon's "small head"; and some write carelessly on the size of that head and other heads, and palm it off as truth upon the public, when the means for refuting their statements are not in the possession of the public thus duped by these falsities, though always available in our cabinet of casts. Phrenology appeals to facts, and

STUDY OF ORGANS BY GROUPS.

This idea being well understood and accepted, the reader is ready to take one step further forward; if the brain, as a whole, be strong in proportion to its size and quality, then each organ and group of organs will manifest power in proportion to size and quality. If we find the

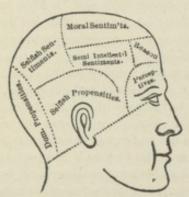
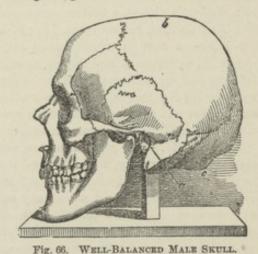


Fig. 65. GROUPS OF MENTAL ORGANS.

intellectual or anterior lobe of the brain is large, and especially if it be larger than other sections of the head, we conclude that the power of the mind will be manifested through the intellect. Another will be largely developed through the middle section of the head, above and about the ears; the middle lobes are large and broad; the American Indian, for example. These persons are found to be forceful, energetic, and selfish, and they are sometimes quarrelsome and severe in temper; they have strong animal and selfish propensities; and if we study the character of animals having heads of a similar form, namely, wide through the region of the ears, we find ferocity and cruelty, as in the case of the lion, tiger, the bull-dog, the eagle, and hawk. Men, on the other hand, whose middle lobe of brain is comparatively small, and the head thin and narrow, are gentle and patient in disposition, are lacking in force, severity, and physical courage, and have little inclination to engage in hard work or in functions of a physical character. In like manner as might be expected, the deer, the sheep, the rabbit, and the pigeon—animals which ferocious animals, have always narrow heads with amiable dispositions and peace- domination of others, show lowness and

ful tendencies. The back part of the head is sometimes large and long from the opening of the ear backward; it is sometimes short and small. When heads are found large in this region, the persons are social, fraternal, and loving. When the head runs down straight behind and the distance from the opening of the ear to the back head is



short, the person is inclined to be solitary and unsocial. The crown of the head is sometimes elevated and amply expanded;

sometimes it is low, depressed, and deficient. Those having this part of the head large, are the governing men of the world, not always the wisest, not always the most



Fig. 67. BALANCED FEMALE SKULL.

courageous, but they have the desire to rule, the desire to bear sway and control others. They have the organs of Selfesteem, Firmness, Approbativeness, and sometimes Conscientiousness large. On are the proper prey and victims to the the contrary, those who are willing to submit and are easily subjugated to the

deficiency of development in the crown of the head. If the front part of the top head be large and well expanded, morality, religion, refinement, sympathy, are to be expected, and if that part of the head be depressed, pinched, and small, selfishness has little to check its activity, and the person is very likely to take a low and narrow sphere of life. When a man is well developed in the forehead and poorly developed elsewhere he is all intellect; another large only in the base of the head is all force; another strongest in the backhead is all sociability; and another whose development is most in the crown, shows domination and ambition; while in another largest in the upper side head, imagination will be the ruling quality, and still another whose front top-head is specially great will be distinguished for morality and religion. When, however, talent, force, dignity, ambition, determination, and morality are combined in the same person, we have the nobility of human nature which wins the love and esteem of the world while it rules it. If Napoleon had combined the kindness of Washington with his own unrivalled talent and genius, the world would know no limit to the esteem and honor with which his name would be cherished.

After studying the groups, the Intellectual, the Moral, the Aspiring, the Forceful, the Selfish, and the Social, we then study the different organs in each group to ascertain their relative size and the direction in which the mind will work strongest in these groups, and just at this point it is that practical Phrenology begins its work.

The GROUPS OF ORGANS (see Fig. 65) should be studied in any effort of generalizing character. Those organs whose functions work in harmony in the promotion of forces naturally related are grouped together. We shall speak of them in the order in which they will be discussed or described in the following pages.

I. Domestic Propensities.—The organs are located in the posterior part of the head and they relate people in domestic and social communities. The organs are Amativeness, Conjugal Love, Parental Love,

Friendship, and Inhabitiveness, and when large the occiput or back-head is elongated and broad.

2. Selfish Propensities.—These are located on the side-head about the ears, and when large give width to the head in that region. They relate to the welfare and protection of the individual, hence their name. The organs are Vitativeness, or love of life; Combativeness, Destructiveness, Alimentiveness, Acquisitiveness, and Secretiveness.

3. Selfish Sentiments.—These are located in the region of the crown, and give elevation and distance from the opening of the ear to that part of the head. The organs are Cautiousness, Approbativeness, Self-Esteem, and Firmness. They give dignity, ambition, prudence, and stability.

4. Moral Sentiments, grouped in the top of the head, give breadth, fullness, and elevation to that region. The organs are Conscientiousness, Hope, Spirituality, Veneration, and Benevolence.

5. Semi-Intellectual Sentiments.—
These are located in the region of the temples, in the upper and forward side-head.
They are Constructiveness, Ideality, Sublimity, Imitation, Mirthfulness, Human Nature, and Agreeableness, and supply the artistic, mechanical, conforming, and refining elements of character, as will more fully appear in the description of the function of each.

6, Intellectual Faculties.—These are of two classes, the Perceptive and the Reflective faculties. The Perceptives bring man into connection with the world of things, while the Reflectives classify and compare the knowledge so obtained, comprehend the laws and principles involved, and impart the power to reason.

The Perceptive Faculties are Individuality, Form, Size, Weight, Color, Order, Calculation, and Locality.

7. The Semi-Perceptive or Literary faculties, situated in a line running across the centre of the forehead, are Eventuality, Time, Tune, and Language, the latter pressing upon the plate over the orbit of the eye presses the eye outward and downward.

are Causality and Comparison, located in of respectability, worth, and refinement. the upper part of the forehead, and for a The rustic boor, who knows scarcely the full analysis the reader is referred to a description of them individually.

Continuity, not classified, seems to give unity of thought and feeling, and aids in promoting patient and continued effort whatever faculty is in exercise.

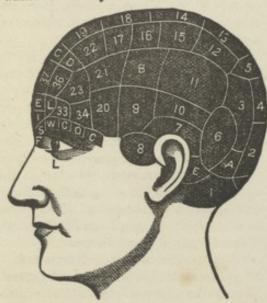


Fig. 68. LOCATION OF ORGANS. ANALYSIS OF ORGANS AND FUNCTIONS. Domestic Propensities.

1. AMATIVENESS.

This organ is located in the cerebellum or little brain, and when large gives breadth and fullness to the base of the skull at the nape of the neck. Fig. 69. It produces physical love between the sexes as such. Its primary office is the continuance of the race. It leads by a law of nature each sex to treat the other with kindness and courtesy. Before this propensity comes into activity, girls and boys may disagree and quarrel with each other, but not so readily as girls would disagree with girls, or boys with boys. But when that time of life comes that this faculty awakens to activity, nature

The REASONING or RELIFECTIVE faculties tendency, inspires efforts in the direction



Fig. 69. R. VIRCHOW.

first laws in gentlemanly bearing, becomes transformed, in feeling at least, when his love element finds its object, and his manners are changed by the awakening of the intellect and the elements of taste, and pride, and nobility, that enable him to assume a bearing which is surprising; the drift and scope and aim of his life seem to be changed.

The shy and awkward girl also, as her womanly nature awakens, manifests life on a new model; her voice has in it more of richness and music than before; her eye acquires a new lustre; her walk becomes elastic, if not always graceful, and every motion is comparatively attractive and winning.

A young man sometimes floats carelessly dictates forbearance, courtesy, and kind- along the stream of life regardless of time, ness between the sexes. Each comes to money, or reputation, until some fair regard the other with special favor, and is being, his natural counterpart, awakens anxious to be loved by the other, and this in him newness of life; he is then altoorgan, though physical and animal in its gether changed in purpose and effort; he begins to covet respectability and refine- union we refer to some others of the lower nent; saves his time and husbands his animals. Some birds and animals choose anperverted mind this result will in a Sheep and horses associate promiscuously, greater or less degree occur.

If we study the influence of this passion upon the lower animals, we find that the male will not fight with the female or manifest cruelty toward her; in this case we know of no exception. We are sorry to say that among human beings cursed with intoxicating drinks and other artificial influences, fierce quarrels between men and women and sometimes murders occur; but these grow out of morbid conditions, and not unfrequently out of special abnormal action of the love element itself, and that which ought to become an attraction between them becomes a source of discontent and disagreement. Jealousy is more often based on the undue activity of this faculty than on any other. The office of this propensity is to propagate the species, and though it is the basis of physical attraction between the sexes, it does not necessarily induce that institution called marriage, as marriage is not necessary to the continuance of the species, that depending upon another faculty, which will next be discussed.

A. CONJUGALITY.

The mating instinct arises from the faculty of Conjugality or union for life, and is the basis of marriage and of the laws and customs which recognize the life choice of one woman for one man. Mating for life does not depend upon Amativeness. That, as we have said, is exercised among the lower animals without any permals pair for life and are as constant in are during the procreating season, show- regret the choice, or change in the least; ing that for ten months in the year Ama- and some of the most perfect and happy tiveness is not their bond of union. To of unions which we have ever known have prove that Conjugality or any other is a been those formed in childhood, five years special faculty, we have only to ascertain perhaps before the promptings of Amathat some of the lower animals manifest tiveness were experienced. Such persons it, and in order to show that Amativeness do not regard the engagement as a yoke is not a bond of perfect and continued of bondage, but as an achievement and

neans and seeks a position of manly inde- a sexual mate and remain faithful to that sendence. In every well constituted and mate during life, as the lion and the eagle.



Fig. 70. WILLIAM ORTON. CONJUGALITY.

Amativeness being the only bond of union, and they do not choose mates. Now the lion and the eagle manifest one faculty that the horse and sheep do not evincewhich is proof that the disposition to choose a sexual mate, permanently, is a special faculty. Man has all the faculties manifested by the animals, and several which the lower animals are denied.

Conjugal Love in frequent instances manent union, but some of the lower ani- comes into activity before Amativeness, and young persons, obeying its instincts, affection during the whole year as they often select each other as mates and never

know, who insist upon it that constancy in love, which is exclusive and personal side during the weary weeks, or sits upon and lifelong, is an imposition, and unnat- the eggs during her temporary absence ural; that marriage and all its laws are and thus aids in the incubation, and when an imposition upon the common people, enforced by the bigotry of priests and the pride and stately gallantry he leads and tyranny of kings. But who will assert protects his family, as boys have good that the lion, the king of beasts, and the reason to remember if they ever tried to imperial eagle are controlled in their mating habits by any law except that which God has written in their natures. The lion, whose voice makes all other animals and man himself to tremble, might assert his right to indiscriminate love, but he selects his companion for life, and is faithfully attached to that one object and choice of his affections. The imperial eagle, that gazes unabashed at the sun, whose broad wing sweeps over mountain and plain, whose very shadow causes every song of the forest to be hushed and other birds to hide in fear, the eagle, lord of all that wings the air, quietly chooses his life companion and lives in the bonds of faithful wedlock, and perhaps for fifty years they build and inhabit their nest on some solitary crag that overhangs the sea, and there together, year by year, feed and rear their young. What kings and priests interfere to impose marriage upon lions and eagles? Is their marriage institution an imposition, a burden, or a yoke of bondage?

MATING ANIMALS SUPERIOR.

All classes of animals that choose their mates show that they have superior social development, and in such the male takes an interest in the young. Animals that associate promiscuously and have no Conjugality, evince on the part of the male very little, if any, Philoprogenitiveness or parental love. The cow, the mare, the hen show great care for their young, but "Where are the fathers?" Do they consort with, cheer and protect the mother during gestation, or help feed and protect the young when they are produced? They do not even know or acknowledge them as their own.

source of rejoicing. There are some, we his mate, helps select the site for the nest, does his share in building it, sits by her the downy brood is hatched, with what become too familiar with the goslings.

Some birds and animals choose their mates every year, during the breeding and rearing season. In all these cases the male adheres to his mate with fidelity, and helps protect, feed, and rear the young. The male robin and many other birds that choose their mate, work as hard in bringing food for the young birds as the mother does. He acknowledges them as his own, and their mother as his consort. This is marriage; it is not mere lust, although that element may be as perfect and complete as in the unmated birds. Some animals, wolves especially, whose habits are solitary, mate and live faithfully until the young are reared and able to take care of themselves, when they separate and each takes a several way. They may live, and mate and marry for the next year, as circumstances may make it convenience or possible, but the point is they do not associate promiscuously.

The fact that all nations have some rule in relation to sexual association indicating a more or less perfect idea of permanency in the marriage relation, shows that from man's inmost life there flows a sentiment which seeks permanent companionship. Some luxurious and sensuous nations have established polygamy, but the general voice of mankind, and even Turkey, if it could speak with freedom, would dissolve the polygamic state and assert this natural law of individual marriage.

SOCIAL CRANKS.

Occasionally persons may be so constituted that marriage is a burden. If they lack the faculty of Conjugal Love it will seem to be so; but such persons ought not to regard themselves as the end of the On the contrary, the gander, who chooses law, as the centre of wisdom on this sub-

who having no knowledge of arithmetic was to laugh about and ridicule the idea of problems and the multiplication table and mathematics; the world would pity im, and the man who could not distinguish musical harmony, if he were to write against music, the world would call him an idiot in that particular. If an inquiry persons who are idiotic or deficient in each of the faculties; one lacks wit, and he is angry at all mirth and fun and jokes; another has no imitation, and he would decry the stage, though he can be a Shylock if he loves money well enough. Anpublic sentiment; another dislikes children; another hates women, lacking Conjugal and Sexual Love. Another person lacks Friendship or Adhesiveness; there don't want one. Another forgets to eat, and wonders why he feels weak; he is deficient in Alimentiveness; another has a poor memory, and another has poor reasoning power, and, lastly, another has a lack of Conjugal Love, and tries to teach that the whole world are fools when they submit to the loving relation of faithful marriage, which he calls a yoke of bondage. It is not strange that some people may be deficient in this, and other people may be idiotic in any one of the other faculties, or if not idiotic so weak as to be s subject of pity. If those who object to marriage belong to that class who are merely governed by Amativeness in the matter, it requires no argument to repudiate their claims to the position of teachers on this subject. They may be intellectually wise; they may be technically honest as to property and social rights, but if they lack Parental Love they will not want children; if they lack Conjugal Love they will not want marriage. If they have strong Amativeness they may desire society through the action of that faculty. Some have been badly mated, and their other faculties quarrel, and they drift asunder and inveigh against marriage during the rest of their lives. Not mere than one

ject. The world would ridicule a man in 10,000 is idiotic in Causality, or in Tune, or in Conscience, or in Conjugality, but the man who is idiotic in Tune sometimes good-naturedly allows people to sing, if they don't get too near him; but he calls it racket, just as those who are deficient in Conjugality call marriage slavery and bondage.

This view of the mental development of were to be made there would be found course stands opposed to every form of license which is contrary to the law of nature in respect to this faculty. We know that those who claim that Amativeness is the only bond of union between the sexes profess to obey the law of nature. As well might a father obey that law of naother lacks dignity; another respect for ture in the production of the child and deny Parental Love in the necessary aid and protection for the maintenance of the child. The whole world would make itself hoarse inveighing against such are persons that never had a friend, and heartless conduct, and the courts of justice compel men to provide for their offspring who are unfortunately out of the pale of wedlock. The only true marriage is where this faculty brings the parties into a holy and permanent union in cooperation with the procreating instinct, and the Parental Love which cares for the progeny; and when we find animals that do not mate permanently, leaving the entire care and protection of the progeny to the mother, it is an argument to show that in the human race there is something lacking in those whose males imitate the horse, the ox, and the swine, instead of the higher type of social animals, the lion, the eagle, the robin, and the goose, the males of which tribes foster and protect their young. The male turkey that hunts the nest to destroy it is a knave and a scoundrel, socially, as compared with the gander, the eagle, and the robin who help make the nest and help care for the young. Free love animals and free love men lack something which does them no credit. Conjugal Love, the special, life-long, individual, and exclusive mating, is human, honorable, natural, and the only sound philosophy of sexual mating. *

^{*} Condensed from "Thoughts on Domestic Life, or Marriage Vindicated and Free Love Exposed," by Nelson Sizer. Fowler & Wells Co. publishers; 25 cents.

2. PARENTAL LOVE.

Parental Love, in respect to the human race as well as to most of the tribes of animals and insects, is a prime necessity to the young. Almost everything requires the parental care and protection, without which it would perish on the very threshold of its existence. It is an exercise that exhibits the beautiful economy and harmony of nature that the parents in every circumstance of life have an endowment



Fig. 71. J. H. MAYNARD, Lawyer. A good face, practical forehead, and very strong social development, especially Parental Love.

of this faculty in exact proportion to the wants of their young. Many insects show the mere instinct of depositing their eggs where the sun will hatch them, but they never recognize their young as their own or exhibit the least care for them; but since such young animals do not need the exercise of the faculty, it is not bestowed on the parent. The more helpless the progeny, as in the human race, the more intense is the Parental Love, and the longer that helplessness continues, the more prolonged and enduring and faithful is parental solicitude. This is shown in respect to weak, deformed, and idiotic children. Their extra helplessness intensifies the parental faculty, and perhaps Conjugality sanctified the matrimonial

pity is added to intensify the care and solicitude. Pope beautifully elucidates this point:

Thus beast and bird their common charge attend-The mothers nurse it, and the sires defend; The young dismissed to wander earth or air, There stops the instinct, and there ends the care ; A longer care man's helpless kind demands, That longer care contracts more lasting bonds, Reflection, reason, still the ties improve, At once extend the interest and the love.

The love of young may be called a pivotal organ, the location of which is easily found on the head, the size of which may be easily determined by a mere novice. If proof of the truth of Phrenology were wanting, we could point to the organ of Parental Love, showing its large development in the middle back head, and appealing to his consciousness of its deep and abiding power in nearly every one, more especially in those who mourn for their children loved and lost. The organ is located in the centre of the part of the head directly above the little bony point which is often quite prominent, and when large it gives length to the head from the opening of the ear backward, and imparts an elongated fullness to the back head. Fig.

The manifestation of this faculty is so various even among human mothers, and so diverse in power in the character of the different species of animals, that the truth or falsity of Phrenology might easily be determined by studying that faculty alone. The little girl loves her doll, her kitten, or her baby sister. The boy cherishes his pet dog, horse, or little brother. But the full fruition of Parental Love can never be experienced except by the parent for his offspring. Those who fail to have children sometimes adopt the children of others, and manifest all the parental solicitude which is necessary, but in the same persons their own children would awaken a depth of tenderness and parental affection that none other could possibly do. The birth of the little stranger, heralded by a thousand harrowing anticipations, calls into exercise not only parental love but all the other social feelings;

union, Amativeness consummated it, and these faculties and hence in the organs by the fruit of that union is literally, to its parents, bone of their bone, and not only bound to them by generation and birth, but also by the added ties of Adhesiveness or Friendship, and thus the child becomes the holiest of the household gods. Parental Love is not based on the talent, beauty, or perfection of the young, though these qualities excite agreeably many other fac-Nor is Parental ulties in the parent. Love, as some, like Prof. Bain, have asserted, the result of general kindness and sympathy or benevolence in the parent, for many are very benevolent in general, but lacking Parental Love have not the slightest love for a child as such. But the true mother, well endowed with the maternal instinct, is not satisfied when she knows that the child is merely fed and kept clean and healthy. She yearns to strain it to her throbbing heart, and to smother it with maternal caresses.

It will be more clearly seen that Parental Love does not grow out of Benevolence from the fact that lions, tigers, hyenas, wolves, hawks, and other fierce and treacherous creatures show quite as much parental affection as those which are the most docile and mild tempered. Even the most quarrelsome and severe of human beings often show parental affection in a very high degree, the feeling being indicated by no means in proportion to their deficiency of general kindness. The Caribee Indians, the very lowest in morality and intelligence of all the American Indians, and distinguished above them all for ferocity and cruelty of disposition, are nevertheless remarkably fond and tender towards their children. These man-eating rapacious Caribs, who rush upon their enemies with the deadly rage of the tiger. incited with the single desire to kill and eat them, are generally more kind to their children than any other nation of the savage tribes. They will sacrifice personal ease and comfort for their protection, and will also become frantic at their loss; indeed the only redeeming trait of the Carib's nature is not the result of morality or benevolence, for he is very deficient in

which they are manifested. His organ of Parental Love or Philoprogenitiveness is so large as to constitute an apparent deformity of his head, and his excessive love of children, notwithstanding the most rapacious cruelty, redeems his character from the utter abhorrence of mankind.

We once examined a man's head and found this organ excessively developed. We desired to make a startling statement, and said to him that he would make a good step-mother, and that if he had no children he would be likely to adopt one or two, so as to have the house and the heart furnished. He replied that he had eight children of his own and had adopted eight, and he was enthusiastic in describing his children. He had them sit at the table alternately, the true children and the adopted children, like black walnut and ash in wainscoting. He proudly said that he and his children did much to run the Sunday-school, and especially the choir, of the church he attended. When we asked him what his pursuit was, he said that he made toys for children; ran a large factory in that interest. Ten years later we met a man with a similar form of head, and for the second time used the same phrase, that he would make a good step-mother, and to round it out we told him the story of the Vermont man who had adopted eight children and made his living by the manufacture of children's toys. When we asked this man what his business was he replied that he was a brother of the other man and kept a warehouse in Maiden Lane for the sale of his manufactures, a specialty being baby carriages.*

3. FRIENDSHIP OR ADHESIVENESS.

It is the nature of this faculty or propensity to give general friendship. See Fig. 72. It is not confined to sex, to persons of equal age or similar circumstance. The child is first conscious of the caressing care of Parental Love, and this awakens his Adhesiveness, being surrounded

^{· &}quot;Forty Years in Phrenology," by Nelson Siser. Fowler & Wells Co. publishers.

fraternal feelings are called out and gratified. It reaches forth to clasp not kindred only, as brother, sister, or cousin, but also the neighbor, to make friends with those who are strangers. It asks for



Fig. 72. Joseph Jefferson, Actor.

An amiable face, loving mouth and chin, soft, gentle eye, a refined nose, strong moral brain, good intellect, and decidedly strong affections; wins the world by his tenderness and affection, though he is a man of talent, and especially has he sympathy and human nature, hence his perfect personations of sympathetic character. Organ of Friendship large.

fellowship, for affection, for fraternity; it seeks all who will respond to friendship. It exists between men, between women, between men and women; some of the most exalted and signal specimens of friendship have existed between men, as in the case of David and Jonathan, Joseph and Benjamin, Damon and Pythias, and thou diest will I die, and there will I be eagle, hawk, and the lonely albatross. buried; the Lord do so to me and more Again, we read, "The soul of Jonathan except its social qualities. It loves its

by brothers, sisters, and playmates his was knit with the soul of David, and Jonathan loved him as his own soul." This feeling of Friendship can exist in its full strength disconnected from all the other social forces, but it greatly strengthens the affection existing between husband and wife, though it is not absolutely essential to matrimonial affection. Friendship arising from the faculty under consideration often exists between a man and a woman before any other love is awakened. Men and women innocently agree to write "letters of friendship," and that is the only feeling that prompts them. In process of time, the bonds of friendship being strengthened by correspondence, a look, or word, or other slight incident awakens between them the conjugal impulse, and in a moment their thoughts of each other and of their relations for life are changed. Before they were friends, as two men or two women could be, nothing more; now they are lovers, and their best aspirations and joys are conjugal.

Man can not enjoy life alone; he is constituted for society, for union and intercommunion with other persons. this feeling people are drawn together into groups; they build towns, villages, cities, where many may be near each other. Some of the lower animals manifest this disposition strongly, others in a subordinate degree, and others appear to act under the influence of some other propensities. Among those which go in flocks and herds and show by their gregarious, society-loving spirit that they possess this same faculty, are horses, cattle, sheep, swine, many kinds of fishes, pigeons, crows, blackbirds, turkeys, geese and ducks, hens, martins, and swallows. also between Ruth and Naomi. Nowhere Among insects, we find bees and ants as can richer indications of affection be found conspicuous examples of the tendency to than is expressed by Ruth to Naomi, fraternize, and those which do not go in "Entreat me not to leave thee; for whith- herds and flocks are lions, tigers, hyenas, er thou goest I will go and where thou panthers, wolves (except when they comlodgest I will lodge; thy people shall be bine their strength to assault animals my people, and thy God my God. Where larger than themselves), foxes, bears, the

One of the meanest animals we know, also if aught but death part thee and me." the swine, has hardly a redeeming trait,

young and protects it. But the little pigs be borne in mind also that whatever facfight with each other, and the older ones manifest utter selfishness by personal quarrels and greedy appetite, but when one of their number is assaulted, the rest rush to rescue, showing a strong fraternal pirit. If a hunter wounds a pig, and he makes an outcry in the forest where swine run wild, they will come running from every direction with mouths wide open ready for the fight, and perhaps forty infuriated swine of every size will beset the hunter, compelling him to climb a tree for his life, and where he may be obliged to remain for twenty-four hours before his fasting foe will leave its sentry to supply its wants in the distance, and thus give the invader a chance to descend and depart. We have known families that would fight among themselves, but if an outsider interfered, they would make common cause against him or her. It is said to be dangerous for a man to throttle another man who is fighting with his wife, and that the wife thus befriended has been known to seize a broomstick and belabor the invading neighbor, and then tell him to go about his business, and that "if her husband wished to beat her it was none of his business."

4. INHABITIVENESS.

This organ is the basis of the home instinct and of patriotism. It is located immediately above Parental Love, and gives fullness to that part of the head, and length from the opening of the ear to the designated location of that organ on the surface. In discussing the phrenological faculties we make frequent allusions to the lower animals, not because in all cases we can examine their heads and determine the development, but because their instincts, exercised without culture, manifest the voice of nature in them, and show the quality of mind and the propensity or passion we are discussing with more vividness, being unwarped by prejudice, unguided by reason or sentiment, love of reward or fear of shame; and thus their have caught the swallow, the martin, and traits show much light on the subject of the faithful phœbe, that builds her nest

ulty can be found in the lower animars is also found in man. There is scarcely being upon earth that does not manifest continually a strong love of home; it is said that even fish have their winter quar-



Fig. 73. John Davis, Associate Justice of the U.S. Court of Claims. Inhabitiveness large.

A temperament favorable to literature and science, and at the same time strength and calmness and force; a good back-head; ambitious, honest, intelligent; fine Language, as shown by the fullness of the eye, and is at home in the social circle; the fullness of the lips and the grand development of the chin show the physiognomy of love and affection.

ters not only, but their regular summer spawning grounds; that they live in schools or shoals, keep together, and together go up the same river year by year. Certain it is that migratory birds in the wild state, such as geese, ducks, martins, robins, the "phœbe," and many others whose merry songs are very welcome and familiar, return year after year to build their nests in the same places. Persons who are curious in matters of this sort the faculties of the human race. It must under the bridge, and attached to the neck

winter in the sunny South. It is said that feeling expressed in "Home, Sweet Home." the robins of Vermont winter in South Jersey and Delaware, while the Jersey and Delaware robins find their winter home in Virginia, and those of Virginia go to Carolina, Georgia, and Alabama. Wild geese, ducks, and pigeons build their nests in communities, and go in flocks on account of their fraternal Adhesiveness, and when the blasts of autumn warn them of the approach of winter, leave their Ammer home and fly in flocks toward heir sunny southern home.

The cat is a good illustration of the love of home, though she has something of friendship for the family where she has been reared, fed, and petted; yet when that family moves, the cat regrets the departure of the family, but composes herself on the doorstep and stays with the house, clings to the home, and waits for some strange family to come and occupy the house, and perhaps in turn it moves away and leaves her in sole possession. The dog, on the contrary, although he may love the home, loves the family more than he does the home, and he is very careful not to be left behind when the family departs. He may whine and bid a regretful adieu to the homestead, but the family, not the home, are the objects of special endearment.

The home instinct is developed into great activity in the child. Almost as soon as he learns to love his attendants and friends, he wants his crib, his little chair and his particular place at the table and fireside; and the pleasantest recollections of old age are those that go back and cluster around the doorstep and the hearthstone of the early childhood home. The richest, at least the most popular of the poems, are born of this affectionate memory, of which we may mention Morris' "Woodman, Spare That Tree," and the dearest thought of all is, "In youth it sheltered me." We have only to add to the love of home the feeling of Veneration it an inheritance in fee simple.

a brilliant bit of metal, and true to their to inspire "The Old Family Bible," the love of home they have returned to re- "Old Arm-chair," "The Old Oaken build their nests and bring back the tiny Bucket," and "The Old Farm Gate"; but medal which they had worn during the the poetic embodiment of all is the home

Patriotism, which is called the most sacred of the human impulses, the grandest, the most heroic, comes from Inhabitiveness. The love of the particular town, street, neighborhood, house, room, place, has its origin in this organ. This patriotic feeling was remarkable in the Jews, and in their captivity in a strange land they moaned "By the rivers of Babylon, there we sat down, yea, we wept when we remembered Zion." "How shall we sing the Lord's song in a strange land?" "If I forget thee, Oh Jerusalem, let my right hand forget her cunning." "And Naboth said to Ahab, the Lord forbid it me that I should give the inheritance of my fathers unto thee." "If a man sell a dwelling house within a walled city he may redeem it within a year after it is sold; the houses of the Levites are their possession."

The history of mankind has largely been a history of war, and on one side a nation desires to acquire and annex more territory; that is, glorify its own nationality. The other side are defending their homes, their firesides, their native land. France looks upon her lost provinces, Alsace and Lorraine, and is laying up money, training up children, hoping and waiting to reconquer and have them back. The Hungarians, about 1850, had their great strug-The wars between gle for nationality. England and Scotland made the land bloody for ages. Wallace and Bruce have their names canonized in memory and in song as brave defenders of their native land, and the Green Isle is perhaps as intense and fierce an exhibition of Inhabitiveness as the world's history has shown. No matter where its sons may roam or rest, they seem ready to fight individually and collectively for the old sod, and although they may never have owned a rod of its territory, they are just as willing to fight for it, apparently, as if they held ir The necessities for a home or special place of abode are numerous and urgent. Friendship and love require a common meeting place. Man and many of the animals need a place to lay up food for the future, and all animals and insects require a place to rear their young or to deposit their eggs.



Fig. 74. WILLIAM M. EVARTS.

Continuity large; U. S. Senator, great-grandson of Roger Sherman. Head very long from opening of the ear forward and upward; a clear, far-reaching intellect; fine language, excellent moral development, and keen wit.

It would seem reasonable that man should gravitate towards the most fruitful places where the soil and climate would make life pleasant and easily sustained, and we think that the system of railroads that makes travel rapid, easy, and cheap, is having a tendency to unsettle the spirit of home love. Men go from New England, or from the Atlantic coast, or from the central sections of the United States to the far West, and because they can come back so rapidly and easily they have a feeling that they are not very far

from the old home; but the children of those emigrants become attached to their native place, and it is sometimes amusing and yet sad to see in a single family, for instance, in Massachusetts and New York, who go to Ohio and raise two children; to Michigan, and have another; to Kansas, and have two more, and then perhaps go still farther West and have one or two more, and when they all get together and are talking about home, the father will think about Massachusetts with tenderness, the mother will speak of her native place in New York State with tears in her voice, the Ohio boy and girl will proudly call themselves Buckeyes, and the Michigan, and Kansas, and Colorado children will each argue for their native plain. Thus love of home induces men and animals to inhabit the extremes of climate and the most forbidding localities, and give to each not intellectual praise of his particular locality, but that abiding love for it that defies arguments and makes the road seem easy to comfort and profit. Thus, as Goldsmith has sung :

"The shuddering tenant of the frigid zone
Boldiy proclaims that happiest spot his own, r
Extols the treasures of his stormy seas,
And his long nights of revelry and ease.
The naked negro panting at the line,
Boasts of his golden sands and palmy wine—
Basks in the glare, or stems the tepid wave,
And thanks his gods for all the good they gave,
Such is the patriot's boast, where'er we roam—
The first best country ever is at home."

Home, then, is the place where friend-ship and love can be enjoyed, where the good things of life can be stored and shared with the loved ones, and where mental culture can best be acquired and used. Love of home, in the abstract, we regard as one of the strongest incentives to virtue, and one of the most important safeguards against vice and profligacy. There is no other word in the language around which cluster so many sacred memories; none so hallowed, so beloved as home.

5. CONTINUITY.

This faculty gives the power of mental abstraction; the ability to devote the intellect or to confine the feelings to a given

subject or object with patient, consecutive application, sometimes to such a degree that all other ideas, and even a consciousness of one's surroundings are lost. Men get into a brown study so that they do not hear the clock strike; are not conscious of the passage of time; get hungry, or their fire goes out; they are so glued, as it were, to their line of thought that all else is neglected. These have large Continuity as a rule. Sometimes people ask what is the difference between Continuity and Firmness? When we say that Firmness gives a stiff, determined fortitude, decision of character; that it serves to brace up the other faculties to the work in hand, the distinction will be understood. Firmness gives determination and obstinacy of purpose, while Continuity gives a patient, perfecting, plodding application. Of two stone-cutters with equal Firmness, they will be alike thorough and persevering, but if one has large Continuity he prefers to use the drill in one place for hours, while the other with small Continuity craves variety, and prefers to use the chisel in cutting and dressing the entire surface of the stone. Each exercises Firmness and energy in equal degree, but one brings his whole mind and energy to a single point, while the other indulges his love of variety ip giving only a few blows in one place.

In England an artisan serves seven years to learn, and follows for life a single branch of trade, and bends his entire mind on that, which gives facility and perfection to his skill in that one line of effort; while in America a man is in turn a farmer, a carpenter, a blacksmith, a shoemaker, a teacher, a lecturer, and perhaps a lawyer, and can pursue each with tolerable success. A man residing in Indiana, about forty years of age, called at our office for an examination, and we told him he had so much ingenuity and such small Continuity that he would be likely to spend his whole life in learning trades rather than following one. He replied that he could get full wages in seventeen different trades, but that he preferred the last one he took up, gunsmithing, and that he had confined himself to it for three years.

We find in some a mechanical pride to be able to say, though perhaps a mason by trade, "I made that bass viol, tuning fork, rifle, writing desk, table, carving knife, set of spoons, and the boots I have on." Thus men with moderate Continuity will neglect their regular business and spend their time, just to show what they can do, in tinkering at things which they could earn, nicely made, and in half the time, by working at their own trade. Many a mechanical genius thus fritters . away his time, and his family suffers for proper support, proving that the "rolling stone gathers no moss." If a child have small Continuity he may be kept strictly to one thing; if it be large, let him follow a variety of pursuits or studies to impart the necessary elasticity and versatility to his mind.*

SELFISH PROPENSITIES.



Fig. 75. LARGE.

Fig. 76. SMALL.

These are Vitativeness, Combativeness, Destructiveness, Alimentiveness, Acquisitiveness, and Secretiveness; their object being the protection and preservation of self; they begin and end with self, though they may be used by other faculties to carry out their purposes. When Benevolence witnesses something that is cruel or damaging to weakness, Combativeness comes to the rescue, or whenever a loved one is assailed, a child, a wife, a friend, Combativeness is simply the instrument for the vindication of the subject which awakens it. When conscience is outraged by some injustice, Combativeness is called into activity to punish the offender, and

^{*} Condensed from "Choice of Pursuits."

the means of self-preservation.

and the whole head is narrower.

VITATIVENESS-LOVE OF LIFE.

The organ of this faculty is located behind the ear below Destructiveness and forward of Combativeness, just above the root of the mastoid process of the temporal bone, and when large, gives fulness and width in that region; its function is

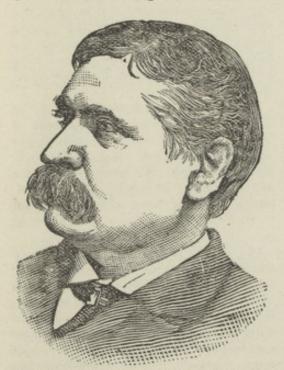


Fig. 77. Wm. D. Dudley, Esq., Ex-Commissioner of Pensions.

Large Vitativeness and Destructiveness, also a fine intellect, especially in the lower and middle section of the forehead, qualifying him for the acquisition of knowledge, and the use of practical talent.

blow and die; they are the narrow-headed duction of the spirit of industry; it gives

these faculties work together to second animals, in which the whole region of the and sustain each other, and as it were to selfish propensities is weak, and especially carry out the motives and forces which Vitativeness; other animals, such as the belong to this group of faculties. These lion, tiger, shark, catfish, hawk, eagle, provide for man's animal wants, create cat, have broad heads through the region those desires and instincts; and supply of the selfish propensities, and they hold on to life and seem destined to destroy When this class of organs is large, the the life of other animals and preserve their head is wide and full and rounded, espe- own. Some men, in whom this organ is cially above and about the ears; when weak, readily yield to disease and resign small, the sides of the head are flattened, themselves to die, apparently with little reluctance, while others struggle with an instinctive determination against the approach of death, and, as it were, by the power of the will recover from a sickness that would prove fatal to another with the same amount of vital power and constitutional strength, but who is lacking this faculty of resistance to death. This faculty is previously referred to in respect to the patients in the Morristown, N. J., Asylum for the Insane, page 17.

> Persons who commit suicide without very much to annoy them, or to make life troublesome, are doubtless deficient in this organ.

> We can not but think that this faculty works with the moral and religious, and especially with Sublimity, to give a relish for the subject of immortality. Job II. 4 "All that a man hath will he give for his life."

6. COMBATIVENESS.

This organ gives the spirit of resistance, courage, and opposition. The organ is located above and a little backward of the mastoid process, at the posterior inferior angle of the parietal bones. When large, it gives width to the head, a little back of the top of the ears, and to estimate its size, it may be spanned by placing the thumb on the organ on one side, and the fingers on the organ on the other side of the head; a little practice will enable the observer, by comparing one head with another, to decide in regard to the size of the organ instantly. The design of this faculty is to defend, oppose, and resist in the love of existence for its own sake, it general. Those in whom this is strongly gives a tenacity of life, a dread of death, marked, meet duty bravely, and engage and resistance to disease. Some animals heartily in that which requires manly are easily killed, they give up with a slight courage. It is a great agent in the proone the feeling that he is strong, that he from his seat in the wagon, and as he



fig. 78. H. B. Harrison, Gov. of Conn., Lawyer.

Combativeness, Self-esteem, and Perceptive large. Observe the length from the opening of the ear to the base of the forehead, indicating great perception and especially strong Order, good memory, and power to think. His head is high at the crown; is ambitious, proud, honest, firm, and a good talker. That nose means enterprise, executiveness, and victory. fact.

Bengal tiger, but as most animals are test we read, "Fight the good fight of

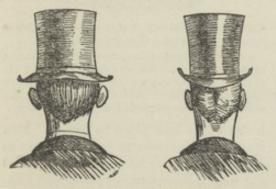
can lift twice as much as he is able to. could not jump high enough to reach his Many a small woman, weighing little more antagonist, he would seize the wagon than a hundred pounds, will take hold of wheel with his teeth, and let it carry him work, or any other achievement that re- clear over to the ground, then seize it quires energy and positiveness, with a again; his courage and his anger making him feel that he was wreaking vengeance on the man who had unjustly whipped him. But this organ is not adapted nerely to physical resistance, it enters rargely into moral courage and intellectual enterprises, and gives that energy of character which sustains the other faculties, and thus becomes an essential element of greatness. Those who engage in great moral reforms require a good development of this faculty to meet the error they seek to overcome. Luther was an eminent example of physical courage, and warriors who are noted for their power to lead victorious assaults, and to press the opposing army to the wall and then to demand "unconditional surrender," are found with Combativeness and its twin brother Destructiveness, largely developed.

> General Grant is a good example of this; a still better example is the head of General Sheridan, which is exceedingly wide at the ears, and widens as it goes directly backward. We have never seen a better instance of large Combativeness, and it was these forces which pushed him to the front, in reputation as well as in

We find the recognition of this taulty bravery that is astonishing. The English scattered throughout the Bible. "Whatcall the manifestation of that faculty soever thy hand findeth to do, do it with "pluck." The dog is a wonderful exam- thy might." "Be ye not afraid of them; ple of physical courage; most animals remember the Lord, who is great and terfight with those of their kind, and their rible, and fight for your brethren, your own size, but will run before one which is sons and your daughters, your wives and larger. Even the lion will not fight his your houses." "Quit yourselves like match, he hesitates to engage with the men and fight." Raised to a moral conweaker than himself, he goes forward as- faith." "Ye endured a great fight of afsuming rights, and clearing the course he fliction." Thus we have the uses of this wishes to pursue, and it looks like courage, faculty pointed out. Of course there is but the dog will assail the bull, or a man, an abuse connected with every faculty or even a lion, or the wild boar, or the where it acts alone, or in contravention grizzly bear; he does his best, although of all moral principles or justice; when it one blow from the bear or lion would is very energetic and not directed by the finish him. We have seen an infuriated moral sentiments, it becomes a disturber dog chase a man who had whipped him of the peace : contradiction is then a gratSome have this faculty too weak, and re- the axe, and do their work by means of quire to cultivate it, they go around diffi- blows, and even though the work were culties when they ought to pitch in and making a bed, or sweeping a room, there conquer them; they should make it a point to engage in debates, mental contests, on every suitable occasion. Where one has the faculty too strongly marked, he should restrain it by shutting his mouth whenever he has the impulse to burst out into a flame and scathe his opponents; such a man should count ten when he begins to be angry, before he speaks, and then try to speak with calmness; most persons when angry begin to talk sharply and loudly. We know of persons who when angry shut the lips tight together until they get over it.

7. DESTRUCTIVENESS.

This faculty may be defined as executiveness, efficiency, force, severity, and joined with Combativeness produces indignation. The organ is situated directly above and extending a little backward



COMBATIVENESS, ACQUISITIVENESS.

Fig. 79. Hat on rounded head, showing by its shape a fullness above and about the ears. Destructiveness and Secretiveness large. See also Eigs. 5, 6, 61, 77. Fig. 80. Hat on narrow head, back view. De-structiveness and Secretiveness small.

from the external opening of the ear. large development of the organ gives width of the head from ear to ear. All carnivorous animals, whether beast, bird, or fish, are broad through this region of the head, while herbivorous animals, like the camel, deer, sheep, and rabbit, are narrow in the same region.

ification, and life is embittered by it. iveness; they like to use the hammer and is a jerk, a tendency to shake and rush things. Such people generally make a good deal of clatter with their tools, or in handling the things they are working with; they break dishes, they smite the axe through the work they are cutting into the ground; they tie knots tightly; sew a tight seam; they knit tightly; they slam doors shut; they strike the nail one good blow after it is fairly driven home and bruise the wood; they crack walnuts thoroughly, and sometimes the thumb; it imparts weight to indignation, and gives unflinching power to carry forward the discharge of duty, even though it may give temporary pain to ourselves or oth-The surgeon needs it strongly marked, though he may have Benevolence to make him pity the sufferer, he needs a stiff muscle and a firm resolve to use the knife effectively. Dentists should have it well developed, so that they can extract a tooth, or inflict so much severity as may be necessary, without having the handle of the tool hurt as much as the cutting part hurts the patient. The North American Indian is remarkable for this development, and seems to delight in cruelty. while some other nations are narrow in this region, and are peaceful, gentle, patient, and lack power and force; and whenever an individual is found with a narrow head, flattened on the sides as compared with the other parts, the selfish propensities, including Destructiveness, will be found deficient.

Without Destructiveness, men could not defend themselves against the encroachments of ravenous beasts. There are people who would shoot wolves and other ferocious animals, but who manifest a tenderness in respect to taking the life of inoffensive animals, and it is a great argument with those who, on principle, avoid the use of flesh meat, because the animals have to be cruelly killed to satisfy Men who enjoy hard work generally the wants of the meat eaters. Such peohave an ample development of Destruct- ple forget that animals which can not be utilized for work, or as food, are not per- ting a good table, so called; they will anything to an ox, we give him six years of leisure and luxury, for the privilege of the taking of his life is instantaneous, and therefore not a cruelty; he does not know what hurts him, whereas wild cattle starve to death in the end, unless they die a violent death in battle or by accident; their teeth get poor and they can not eat enough to keep them alive, and they will be, perhaps, three or four years starving to death, so that the mercy of raising cattle for the slaughter, and killing them instantly, without their feeling the shock, is by no means cruelty, though it requires Destructiveness to do it, hence we read, "Arise, Peter, slay and eat"; "Be ye angry and sin not, let not the sun go down on your wrath"; "Let all bitterness, and wrath, and anger, and clamor, and evil speaking, be put away from you with all malice."

8. ALIMENTIVENESS.

This organ gives appetite, enjoyment of food and drink. It is situated immediately forward of where the front part of the ear joins the head, and when well developed, gives width to that part of the head. It is located in the anterior convolution of the middle lobe of the brain; this part of the brain presides over appetite and nutrition, gives the desire for food, and those who have it well developed, if they do not pervert the faculty by eating too much or too often, and that which is too rich or ill adapted to health, have a vigorous digestive system, and are apt to take on flesh and be plump, and will develop especially about the cheeks and neck. Persons with this organ large, enjoy cooking and preparing food, procuring it, laying it up, thinking about how good it will be when the time comes to eat it; these are of the kind to cater for those that eat, as cooks and providers. Persons keeping a hotel, who have large cold water. We know women who seem Alimentiveness, are usually noted for set- to be provoked at the thought that hearty

mitted to live, because their needs would 'have enough. People that have weak eat up the food of the world, and render Alimentiveness think others want no more man's existence perilous. If life is worth than they do, hence they cut thin slices of bread and meat, they serve out a light portion. A man with large Alimentiveeating his flesh and tanning his hide, and ness feeds his dog and horse, and keeps his cattle in good condition; would feel ashamed to have his cattle complain of their board, or his guests think that his

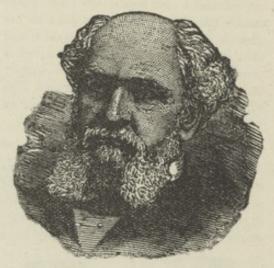


Fig. 81. F. W. LINCOLN, Treasurer of the late Boston Exposition. Alimentíveness large.

A large brain, broad at the temples and side-head; a natural financier, constructor, administrator, and capable of winning and holding a good place in any business or profession; has strong temperament, and exerts much personal influence in society.

house was a lean place to live at. Men who deal in provisions have been led in many instances to their business by having large Alimentiveness; beef and mutton and pork look good to them, and they have a leaning towards that business in consequence; such men like to keep a grocery store or restaurant; they make good judges of butter, cheese, everything that can be tasted and estimated in that way. Those that have the faculty deficient pick up dinners, and, if alone in a house, they would not cook more than one or two square meals a week, but boil an egg, or eat some crackers, or a bit of dried beef or cheese with plain bread, or perhaps buy a quart of milk, and when they had consumed it, rinse the dish in

people want to be eating so much, and only a given quantity, and thus increase other sunny-faced matrons like to see the its bulk by adding water, and feel that it men and women who eat at their table was better to do so. If such people buy take hold heartily; they cut thick slices a picture, they want water represented in

In many ways this faculty is influential in promoting industry and economy, and in the acquisition of that which is to be wanted; the farmer will mow close, and rake clean, and gather up the harvest, and store it in his barns, not to sell it, but to feed it to his cattle, and they look sleek, and he is pleased to feed them and nurse them into vigorous condition. With this organ large, people never pinch those that feed at their expense; if they have large Acquisitiveness, they make a sharp bargain, or if they have large Combativeness and Acquisitiveness, they may work their people and their teams hard, so as to earn as much as possible, but when they come to the table and manger, there is no scarcity, no meanness there.

It is a poor place to board with people who never seem to want to eat themselves.

F. BIBATIVENESS.

This organ is situated in front of Alimentiveness, but is not generally marked on our busts and diagrams, but in the symbolical head it is sometimes represented by one man eating and another drinking. The organ may be a part of Alimentiveness, but those who are chiefly developed in the anterior portion of the region referred to, like to have soups and moist food; they want a good deal of milk with their oatmeal and their bread; they like custards that are not solid, but juicy; they do not want dried peach pie, unless it is made so juicy that it will flow and fill the plate; they do not like dry toast, or other articles of food in a dry condition, and in their daily life they take a good deal of fluid; would rather have two cups, with the same amount of tea or coffee that one cup would contain, than have it in one, and we know persons who

of bread, they load the plates and plat- it, and to live where they can see sheets ters, and make everything seem abundant; of water or hear the murmur of it, their they don't make biscuit the size of a hen's tastes being modified by this element of their character. Others we know who buy condensed milk, and put very little water in it as they eat it, they want it considerably thicker than common milk. There are some who dread to take a bath, they will wash themselves in a pint of water, and others want an abundance of it, though they had to bring it in a pail fifty rods. Those who enjoy swimming and sailing, and are about as much at home in water as a duck is, are presumed to have this faculty strongly marked.

> This feeling may be perverted, and some people get in the habit of drinking four times as much as is necessary, and others do not drink half enough; they have a kind of dry dyspepsia, and the other a moist dyspepsia, a water-soaked state of the system.

9. ACQUISITIVENESS.

This faculty is imparted to prompt men to lay up food and other articles of value for future use; it is eminently a providing faculty; it is also possessed by some animals to impel them to lay up in time of abundance, for scarcity; to gather the fruits of summer for use during the winter; in other classes of the lower animals there is no trace of it. To show the acquiring instinct and the want of it in different animals, we may say that if a quantity of corn were laid on the ground, a common fowl finding it, will greedily devour whatever is required to satisfy the appetite for the time being, and go away without a thought as to that which remains, will not gather it up, or stand and protect it for future use; but if a squirrel, that likes corn no better than the chicken does, were to discover the corn upon the ground, he would not stop to satisfy his appetite, but would begin to carry it off to his nest, until the last kernel had would pour water into milk, if they had disappeared, then he would deliberately satisfy his hunger; thus he would find as persons become civilized, and have himself in possession of food for many weeks; the fowl, however, that does not acquire and lay up, on the return of appetite would come back expecting to find the corn.



Fig. 82. J. J. Knox, Controller of the Currency.

See the large Acquisitiveness and Constructiveness; the head is broad, rather than high, showing a tendency towards things physical, material, and financial, rather than things fanciful and fanatical.

The bee is an eminent instance of the acquiring instinct; birds supply their wants as best they may from day to day, with no apparent care relative to food, consequently birds in a high Northern latitude, where winters are severe, are obliged to pick up a precarious existence; other birds go South where food can be had throughout the winter. The fox makes his meal from his prey, and if there is any surplus he buries it for future use and will fight for it as property.

The proper exercise of this faculty in the human race, how it should be cultivated when too weak, and restrained when too strong, is an inquiry of serious importance. In civilized countries, the idea of property has become the ruling one. Among savage tribes, the idea of property

laws that protect them in the possession of their property, the great thought seems to be "How can I become rich?" Thus the faculty is often perverted, and men are not satisfied to lay up as much as they think they will want. One of that selfish sort, when informed that a frost had killed the crop of potatoes, remarked, that he did not know as he cared, because he had enough laid up in his cellar to last two years, seeming to forget that the tuber will not keep. So the millionaire strives to make more money; not that he expects to want it, or that his children will want it, but it becomes a passion, a kind of game. We knew a little half grown fox, that broke his fastenings one night, and went to some chicken coops, and with his long arms pulled out the little chicks and nipped their heads, until he had from several coops captured eighteen; he took them over the fence into a plowed field and buried so many as he did not then wish to eat, not knowing that in the warm June weather one-half of the prey he had thus acquisitively hidden away would become putrid before he could consume it all. He was a millionaire in chickens, obeying Acquisitiveness without reason or sense. The primitive design of the faculty is to inspire every human being with a spirit of industry and frugality, to lay aside from the earnings of youth for sickness and for age, and to amass a sufficient amount of property to serve his wants in old age, and enable him to rear and educate his children.

Something besides Acquisitiveness is necessary to the successful prosecution of business and the accumulation of wealth: those possessed with skill and talent, and with a fair degree of moral feeling, even though their Acquisitiveness be as strong and active as such an education would render it, will by the over-mastering power of that element accumulate wealth and do it within the pale of the law; they will plan, see results before reached, anticipate improvements and depressions in business affairs, and know when to let out exists, though not in a high degree, but and when to take in, and they get and

do it honestly. Those on the contrary dustry and energy, and the talent necessary to perfect plans for acquiring property, and especially the shrewdness to compete with the artful, will find themselves poor; sometimes such people finding themselves pinched with want, their children suffering for provision, will be driven to desperation; their love for their family, those holy feelings which under favorable circumstances minister to virtue and happiness, under privation have a directly opposite tendency. Many a man in such a position has been led to steal and rob, not because he was by nature vicious, or coveted his neighbor's property, but because he had not the shrewdness, and tact, and industry to acquire the comforts of life in a legitimate manner, and to save his loved ones from cold and hunger has violated the criminal law. Now surely it is not the natural state of man, that a single propensity, one selfish desire, namely, Acquisitiveness, should rule the human race with such despotic sway. In tropical climates we find in the savage but little of the faculty of Acquisitiveness; his wants are few and easily met, and this organ is small, but as man goes from the equator into colder latitudes, clothing, shelter, and an accumulation of food for winter are necessary, and this organ thereby becomes developed by exercise, together with those qualities of ingenuity and energy which lie at the foundation of skill and industry; hence Southern people who can earn a living without much worriment, are apt to regard Northern people as stingy, because they have to be economical. A man that has to feed his stock of cattle seven months in the year must raise all the fodder he can, and gather it all; he has to burn a pile of wood during the winter as large as his house, to keep himself warm; he needs clothing to screen him from the inclemency of the weather, and must lay up food in abundance during the short summer, and therefore must needs be industrious, and appear sometimes to be

do it honestly. Those on the contrary who have Acquisitiveness large, and but little mechanical skill, and who lack industry and energy, and the talent necessary to perfect plans for acquiring property, and especially the shrewdness to compete with the artful, will find themselves poor; sometimes such people finding themselves pinched with want, their children suffering for provision, will be driven to desperation; their love for their family, those holy feelings which under favorable circumstances minister to virtue and happiness, under privation have a generosity would be sustained.*

10. SECRETIVENESS.

This organ is located above Destructiveness and backward from Acquisitiveness; when this organ and Destructiveness are both largely developed, there is a general fullness of the lower part and middle por-



Fig. 83. FERDINAND WARD, False Financier.

A low top head, very broad from side to side, showing Secretiveness, cunning, Acquisitiveness, Dostractiveness, and large Ideality, hence fond of art.

tion of the side-head. The design of the faculty is to produce concealment and a restraining influence upon the other faculties; its primary action has merely sel-

^{*} Condensed from "Choice of Pursuits."

animals it acts as a blind instinct, while guided, modified, and restrained, and allowed to act only in accordance with the higher dictates of the mind.

Secretiveness rather strongly marked; the cat species, from the lion downward, secretes itself and patiently waits and watches the approach of prey, and when near enough, seizes it at a single bound, before the victim is aware of the presence of the enemy. Most of the herbiverous animals have little Secretiveness. Since their food does not flee at their approach, to conceal themselves from enemies; and many of them have fear and speed which they use as a means of safety.

times so strong that certain characters are tinged with a fox-like or cat-like cunning; they do not say or do anything in an open, frank manner, but it is by concealment, by artifice, and there is a mystery in all they do. They talk with saving clauses and evade committing themselves small are abrupt and ill-timed and blunt in their remarks. It is important to train this faculty when it is weak and restrain it when too strong.

There are some people who exercise Secretiveness in a business way, perhaps incidentally; they have a faculty of making everybody think what they have to sell is particularly good, and that it can be had at a bargain; they may defraud no man, but there is a sort of false pretense about the whole thing. One of the most marked manifestations of business Secretiveness has lead a certain public man to relate his line of business to public sentiment in such a manner that everybody was greedy to patronize him, and although they went away thoroughly satisfied that they had got their money's worth, yet they seemed to have a feeling that his dwarfs were not so small as they had supposed or his giants so large as they had the fitting of the hat or the bonnet. Ana-

fish gratification in view. In the lower anticipated, yet there was so much to be seen that they had not been cheated. in man it is coupled with reasoning power That was done by a kind of sagacity and and moral sentiments by which it may be tact which presented the glowing side of the picture, and created a furor in favor of his business.

The perversion of this faculty has much Nearly all the carniverous animals have in it that should be avoided; it creeps into almost every sort of business; it tends to put Indian meal into ginger, and sand into sugar, tea grounds that have been drawn and dried into tea and sell it the second time; it puts peas into coffee, adulterates drugs, puts cotton into woolen flannel, and it contrives somehow to veneer and adulterate nearly everything that comes into the market, in fact it is their only use for Secretiveness would be one of the most subtle and hard faculties to understand and head off from its purposes.

We sometimes hear parents deceiving In the human race, this feeling is some- their children from the very cradle, and most children are trained to deception, if they follow the example set before them by nurses and others, and the result is they soon employ deception to carry their own points, and then they are upbraided for lying and cheating.

A fair share of Secretiveness is desirasquarely; while those in whom it is too ble so as not to express that which had better be concealed. "A fool uttereth all his mind, but a wise man keepeth it in till afterwards," "He that keepeth his mouth keepeth his life, but he that openeth wide his lips shall have destruction." "The words of his mouth were smoothe" than butter, but war was in his heart; his words were softer than oil, yet they were drawn swords." From the days of Judas till now the hypocrite and deceiver have been feared and hated, yet hypocrisy and deception creep into the daily life of thousands who consider themselves pretty

11. CAUTIOUSNESS.

The organ of this feeling is situated on the upper side-head outward from the crown, or a little further back than the ears. It is generally the widest part of the head, and frequently interferes with

of this faculty; watchfulness, carefulness, stands at the elbow of Hope, true to its solicitude, anxiety arise from it; it stands opposed to boldness, rashness, courage; it bears very much the same relation to the other faculties of the mind that holdback straps bear to other parts of a harness, or that the brake does to the wheels of a car.

There is no more painful emotion than fear; nothing that wears out the health more than anxiety. We are so organized and so surrounded that we are constantly liable to injury, and are therefore frequently subjected to danger, consequently Cautiousness is an important quality of the mind, serving as a safeguard. Its langnage is, "take care," "look out," "avoid danger," or "manage to master it." The feeling, however, is blind in itself; it has no wisdom or knowledge; it is simply a feeling, a passion, a sentiment, not an intellectual power; in itself it could not look out nor take care, but arouses the

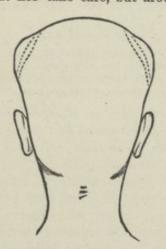


Fig. 84. CAUTIOUSNESS ILLUSTRATED.

intellect and all the other faculties to watch against danger. In its healthy action, Caution tends to check the ravings of Combativeness, adds prudence to be dangerous to the life, health, and hapishes Approbativeness to beware of such undermines self-respect, and changes the

tomically, it is located in the centre of society as will bring disgrace; it warns the parietal bones at the point where ossi- Parental Love to incite the mother to fication begins. Fear is the normal result watch against all evil to her child; it

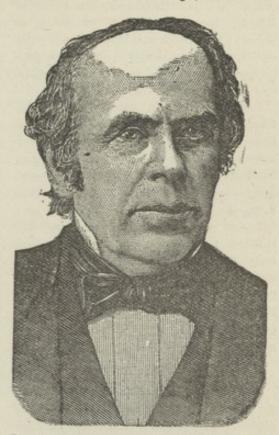


Fig. 85. W. P. Sheffield, U. S. Senator from R. L.

Cautiousness large. He has also a fine temperament, with a predominance of the intellectual and moral regions of the head, with considerable fineness of quality as well as strength.

location on the head, to suggest the necessity of laying a solid foundation for anticipation, and frequently casts shadows upon the bright images which Hope creates; it stimulates the intellect to make such investigations as will minister to the well being of the individual, and plan such a course as will give security to the possessor. A proper development of Cautiousness is useful in restraining such a manifestation of all the powers as would Courage, warns enraged Destructiveness piness of the individual. When excesto avoid undue severity, holds back the sively developed, it throws a cloud over arm raised to strike with the deadly wea- all manifestations; it paralyzes courage, pon; whispers to Acquisitiveness of fu- energy, determination, and Hope; it ture want, of losses and poverty; admon- smothers enterprise, dampens ambition,

action of Veneration from a due adoration proof, or rebuke, and gives a sense . it allows Hope to revel in perpetual an- strong and a weak point in people; it renticipation; permits imagination to career through the universe without rudder or ballast; it permits rash expenditure without complaint, makes one reckless of dangers, and allows him to run into troubles and difficulties on every hand.*

Cautiousness is an element of bashfulness, and if joined to large Approbativeness with moderate Self-esteem, bashfulness and timidity amount to a disease. Mothers and teachers, in fact nearly everybody who has anything to do with children, are liable to use Cautiousness as a kind of rod of correction; they will threaten to shut children up in the dark cellar, the dark closet, or call the policeman, in a city, or the old tramp, in the country, to carry off the child; it is not strange that people who have been thus trained in childhood should be cowards in a thousand ways all their lives.

12. APPROBATIVENESS.

This faculty gives those who live in society a desire to enjoy the good will of others. This requires a sacrifice of individual feeling, or rather a modification of



Fig. 86. APPROBATIVENESS ILLUSTRATED. ft, and is the foundation of politeness. It gives the desire to please, and its effects on the feelings and character are immense. It seeks praise and recognition, and makes its possessor unhappy under criticism, re-

* From "Choice of Pursuits."

to a slavish fear of God. When the organ shame and mortification. In civilize is small, the effects are directly opposite; countries, the love of praise is both a

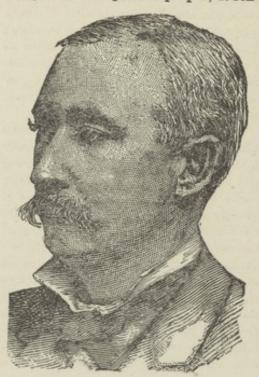


Fig. 87. R. A. MAXWELL.

Approbativeness large. He has also a fine temperament, a harmonious face, strong nose, fine perceptive intellect, practical talent, criticism very strong, ambition, energy. brudence, and perseverance.

ders one strong when it serves to create ambition for eminent and honorable attainments; it renders one weak when those he associates with are frivolous or have a downward tendency in their conduct. To be popular with them and avoid their ridicule he will adopt their methods and "go with the multitude to do evil." Its perversion makes it a source of temptation. Properly developed and influenced by persons of honor and good character, it becomes a wonderful magnet to draw young people towards that which is worthy, but its extreme activity often becomes a snare as well as a source of slavery to many. A little girl who is beautiful becomes vain of her dress and of her fine looks, and neglects to be just and kind and courteous to others. She does not deem it necessary to become a scholar, or to carry

herself with refined and ethical manners. If she is sought after and made popular ple show Approbativeness may be obon account of her beauty and fine dress, she becomes petulant and tyrannical and unamiable; whereas one who is plain in appearance finds it necessary to be kind and gentle, and obliging, and obedient, and courteous in her ways in order to be acceptable; hence, many a plain girl is permitted to ripen normally, and become the very salt of the earth; whereas, if she had been beautiful, she might have been spoiled by flattery.

Praise and censure in some schools and families is the only law, and leads to the establishment of Approbativeness as the moral standard of daily life. The questions are, "What will people think?" "What will they say?" "Will I get praise for this or blame for that?" and not "Is this or that in itself right, honorable, just?" Children are too much left in the care of ignorant servants and nurses, who, not having the right of controlling or governing the children, are obliged to flatter or frighten in order to exert an influence. In passing along the street we often hear a nurse-girl talking to some little pert boy or girl, praising him to get him to do the honest thing, or offering bribes to his appetite if he will stop being naughty.

Approbativeness becomes morbid sometimes in business men; dread of failure leads them to strain every point, and sometimes to violate the equities of life to avoid the disgrace of a failure, and then having been led to embezzle to prevent failure, finding themselves detected, they commit suicide because they can not face the disgrace of failure and crime combined. Yet with all the evil that may arise from the abuse of Approbativeness, when the higher sentiments prevail in the character, ambition and pride minister to virtue and to the development, improvement, and happiness of mankind. Ambition is a spur to action, and working with the higher powers, it looks to honorable endeavor and service to crown the performance of duty with success, joy, and respectability.

The great variety of ways in which peoserved on every hand; in the style of dress and equipage, in the home and surroundings, in the following of fashions which change frequently, and render one with large Approbativeness utterly miserable if obliged to wear a hat, or a cloak, or a dress that was all the style three months ago; but the new fashion plates having appeared, one must not go on the street or even to church, without the new style, yet the influence that is thus perverted is salutary at the root.

13. SELF-ESTEEM.

Many persons shrink from the idea of being endowed with large Self-esteem,



Fig. 88. Governor R. J. Oglesbey, Ill.

Strong Vital temperament; large Self-esteem, and Language, good practical talent; headstrong, earnest; yet genial and friendly.

yet it is among the most ennobling of human characteristics, and even when it exists in too great a degree its very excess commands respect, although it may not always win our love. The excess of Approbativeness, which gives vanity and the tendency to boast, is what most people regard as Self-esteem. The true office of the organ is to give us the idea of selfhood.

of our own personal value. A certain hard names to the functions of this organ, one to value his opinions and plans, and pose that stubbornness, obstinacy, and gives him confidence in the exercise of his courage and judgment.

Self-esteem frequently preserves persons from descending to practices of vice and meanness, and in those who are fallen, through intemperance, it is sometimes the only element that can be acted upon to effect a reformation. Those who lack Selfesteem, whatever may be their talents, are apt to feel unworthy, diffident, and to shrink from responsibility. They decline all offers of advancement from a sense of unworthiness. We know that large Selfesteem and moderate intellect and culture will sometimes stride forward to the highest seat, and be called upon to step down and give place to a worthier, but among men as they average, and notably among women, there is in this country a lack of Self-esteem and too much Approbativeness, which makes people slaves of public sentiment, and leads them to undervalue their own capacity and worth. What exerts a more controlling influence over a little boy who proposes to do something too childish and frivolous, and who whines and cries because he is arrested in some favorite pursuit? Let the mother say, "What, a big boy like you, so tall, who in a little while will be as tall as your brother John, or your father, a big boy brother or sister for the possession of a toy." If he has Self-esteem enough for his own good, he will straighten up and show that he is too much of a man to play the baby. The little fellow is now inclined to say with Hazael, "Is thy servant a dog, that he should do this?"

another.

14. FIRMNESS.

amount of personal dignity is necessary and as it exists in some people they are to make the world respect us; it enables doubtless deserved. Many seem to sup-



Fig. 89. Berj. F. Wade, of Ohio. Firmness Large Governor, U. S. Senator, and one of the firmest, bravest, and most honest men this country has raised; born in Springfield, Mass.

wilfulness really indicate the normal tunctions of Firmness, but in the light of true mental philosophy these names indicate the abuses of this important element of our nature. Firmness is not the only quality which has been misnamed; anger is supposed to be the whole of Combativelike you to cry or quarrel with his little ness, murder and cruelty to be the normal functions of Destructiveness. Some suppose if one have large Acquisitiveness he must therefore be a thief, if he have also large Secretiveness he must be a thief and a liar, and these names are quite as appropriate for the organs referred to as are those which are commonly applied to "Be thou strong and show thyself a Firmness. When Firmness exists in a man," is the language of Self-esteem predominant degree it will often be maniwhen employed to arouse this spirit in fested in the form of an obstinate, captious, contrary spirit, but if justice and kindness, prudence and friendship, and a sound intellect belong to the same mental The office of this organ is to give stead- constitution, there is no reason why perfastness, stability, fixedness of purpose, verted Firmness should become the masand determination. Many persons apply ter spirit of the man. We know Combat-

Approbativeness may rule over the mind, row mind and little sense of respectability, each in a different individual, but a well- and they take pleasure in showing how balanced organization requires a good de- they can decline to do that which people velopment of all the organs, Firmness desire done. Persons are sometimes among the rest. The true nature of Firm- ashamed to retreat from a position they ness is to give stability, fortitude, and have taken. Two men have a difficulty, fixedness of purpose, to enable one to and each determines not to speak to the stand up against the current of opposi- other first. We have heard of a farmer tion, to hold his faculties to their work and son living together for fifteen years, until the duty is fulfilled; and thus Firm- and carrying on farming, and not exother mental powers.

If we attempt to force a person having large Firmness, we meet with instinctive resistance and positive refusal to do that course desired may be adopted, though structure. stoutly refused so long as coercive measures were continued. Three-quarters of the balky horses could be cured, if instead of being urged and whipped, they were of the leading principles that were demheld in and told to stop, although they have onstrated is that the mental faculties are already stopped, and then are allowed to innate. For many centuries philosophe rush up the hill as if no power could stop related to impressions made by external

iveness, Amativeness, Alimentiveness, or him. Some men have Firmness with a narness can be made a kind of seasoning for changing a word with each other; each many of the other mental powers. Work- would tell a third party, perhaps a boy, ing with Combativeness, it produces de- what he was going to do, and thus the termined bravery; with Conscientious- business would be talked about, but the ness, inviolable integrity; with Acquisi- conversation was not addressed to each tiveness it enables one to hold on and other on account of their being committed ultimately reach the desired result. Com- to silence. In such cases, however, some bativeness and Destructiveness give pro- other faculties combine with Firmness, so pelling energy to the character, as sails that a person feels that he can not come or a steam-engine give propelling power down; and would be glad to get out of to a ship, and as the rudder keeps the ship the difficulty if the other party would on her course against the wind, thus mak- break the ice and say "let us be friends." ing the element of propulsion available Here Firmness is a tyrant, and though it for reaching the desired haven. Firmness has modes of manifestation that are undeproperly related gives endurance to all the sirable, just as some of the other faculties have, it is nevertheless very desirable in the character, serving as a kind of spinal column on which the mental elements are built or attached. It is like the keel which his judgment, inclination, and con- of a vessel that serves to give stability to science would suggest as proper and de- the whole structure, and yet the keel is sirable when allowed to choose the course not a ship, as mere Firmness is not charand act freely; but if compulsory meas- acter, but both the keel in the ship and ures are employed resistance will be used Firmness in the character serve to countil freedom of choice is given, when the ordinate the other constituents of the

THE MORAL SENTIMENTS.

With the discovery of Phrenology, one rest until they have recruited and recov- contended one against another on the subered their breath; then they will start ject of original ideas. It may be said that without commanding, or by the simple they were arrayed in two great parties; word. A man who drives a horse that those who followed Plato, claiming that lacks Firmness will see it and feel it; for a there are original interior conceptions; horse that is very firm will manifest reso- and those following Aristotle, who as earlution and persistent earnestness to pull nestly asserted that all mental conceptions the load through all the bad places, or are derived from without, and therefore phenomena upon the common senses. The moral nature of man was considered from the same points of view, theologians, even, being divided in opinion. The great Alexandrian school, that exerted a

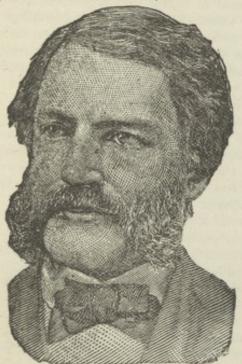


Fig. 90. S. H. Grant, Controller of New York.

A well-balanced Physigonomy and Phrenology; the massive chin shows strong vital power and eminent social tendencies, while the nose indicates refinement, precision, criticism, self-reliance, and his forehead, easy adaptation to his circumstances and surroundings.

A large brain and harmonious temperament, a good moral development.

most profound influence upon the religious thought of the world, declared allegiance to Aristotle for the most part.

In modern times many of the most eminent metaphysicians have enunciated views that man was not endowed with an innate, moral sense. For instance the theories of virtue advanced by Hume, Hobbes, Mandeville, Paley, and others rejected original, moral intuitions. On the other hand, Kant, Reid, Stewart, and Thomas Brown admit their existence. In the discussion of the nature of conscience, or the sense of duty and personal obligation, learned men have widely differed, although agreed as to its basis, in their analysis of its application. The eminent Cudworth, for instance, endeavors to show that the origin of our notions of right and wrong is

to be found in a particular faculty of the mind which distinguishes truth from falsehood. Dr. Adam Clark supposes virtue to consist in acting according to the fitness of things. Mr. Hobbes teaches that the laws which the civil magistrate enjoins are the ultimate standards of morality. A boy in a Sunday-school class was asked for a definition of the word "conscience." He replied in the language of the catechism, "It is an inward monitor," but, when asked what he meant by "an inward monitor," he replied, "An iron-clad, sir," showing that his education in naval matters had not been altogether neglected, if his views on moral distinctions were not at all clear. And if "learned doctors" have shown much fogginess in defining the term, a boy could scarcely be expected to comprehend it.



Fig. 91. B. Austin. Moral Organs Large.

Mental temperament; large head; very energetic, clear-headed, and liable to overwork.

Dr. Paley declared virtue to consist. "In doing good to mankind, in obedience to the will of God, and for the sake of everlasting happiness." Sir James Mackintosh descibes conscience to be made up of associated impressions, therefore a compound judgment. Mandeville declares that the moral virtues are only sacrifices of self-interest for the sake of public approbation.

Se far as they go, some of these views are correct, but they are for the most part judgments of men having highly cultivated intellects; they are rational inferences, but they do not go far enough; they simply add to the world of speculation that has been ever enlarging, with regard to the moral conduct of men.

With the discovery of Phrenology and the settlement of the question of the endowment of man by nature with original mental powers, the question of the source of moral action is fully answered. Now we know that the different qualities that enter into a virtuous action are dependent upon the exercise of special organs. The moral act is necessarily combined; two or more faculties enter into it. The simple act of religious worship may associate with Veneration, Spirituality, Hope, and Conscientiousness, and also the intellect, when devout emotion would express itself in words.

Let us see for a moment how these faculties operate. It is Veneration that recognizes self-consecration to God, and stimulates reverence. It is Conscientiousness that impresses one with the feeling of duty, indebtedness, obligation for benefits received. It is Faith or Spirituality that opens the inner vision to an appreciation of the existence of a power supernal. It is Hope that reaches beyond the present to a joyful existence after this mortal sphere has passed. The intellect enters into the expression of worship; it may, by its conclusions born of reason, strengthen the sense of right and duty, confirming one's impression that sacrifice, prayer, and praise to the Creator are consistent and proper.

The moral sentiments are grouped together in the top-head and superior parietal region; there Conscientiousness, Hope, Marvelousness, or Spirituality, Veneration, and Benevolence form a close alliance, and these in the language of Phrenology constitute man a moral and accountable being, giving him the disposition to be of service to his fellow men, to worship his Creator, and to expect a future state of existence.

15. CONSCIENTIOUSNESS.

This organ is situated in the coronal region below and adjoining Firmness. See Fig. 92. Its office is to impress man with



Fig. 92. HENRY B. ANTHONY, late U. S. Senator, R. I.
CONSCIENTIOUSNESS LARGE.

A well-balanced temperament, and a smooth, harmonious, substantial nature, sound intellect, prudence, dignity, and determination; was called "Faether of the Senate," and was its President pro tem.

a sense of right, duty, and accountability. It bears a close relation to the quality so much talked of by moralists as "Conscience." It whispers its approval or disapproval of conduct. It is analogous to the original power recognized by Lord Kames, Dr. Brown, and others as instinctively discriminating between right and wrong. One in whom this organ is well developed, is naturally disposed to regulate his conduct by the standard which he believes to be right; and in performing his duty will sacrifice personal interest, and not allow himself to be interfered with by any considerations of friendship or affection. Conscientiousness prompts

those in whom it is strong to be just in insanity which is termed "melancholia" errors.

This faculty leads to punctuality in keeping appointments, making one appreciate the injustice of causing others to lose their time or be put to inconvenience. It imparts consistency to the conduct, and in those whose lives appear to be symmetrically beautiful through their respect for duty, and their prompt regard to keeping engagements in their callings, the faculty is strong. In association with organs of the individual and selfish nature that are active, say Firmness, Self-esteem, Combativeness, it is more conspicuous in its expression; such persons are moved to loud utterances of anger when they hear of acts of cruelty or injustice; they would have the offenders against law, order, and decency, brought to a prompt tribunal and punishment meted out. In one who has the faculty small, the expression of duty and obligation is but feeble; and there is a corresponding laxity of principle. His conduct will take the direction of his strongest feelings without much respect to truth and justice. If Acquisitiveness be powerful, he will seek its grattification by the most direct means, re- Fig. 93. Conscientiousness Small. See also Fig. 75. gardless of the rights of others. If Approbativeness be active, he will adopt almost any line of conduct, however it may violate justice and propriety; he will be fair and specious to a friend, and appear to spmpathize with his likes and dislikes; yet apart from him, will be ready to make fun of his weaknesses that were praised to his face, and join with others in condemnation of that which but a little while before he had shown a hearty ap- cating a deficiency in this moral element. proval of.

Strong Conscientionsness plays a conspicuous part often in insanity, especially if disease affect the region of the brain in scientiousness lies the organ of Hope. A

judging of the conduct, opinions, and tal- it may contribute much of the gloom and ents of others; such persons are scrupu- depression so marked in the unfortunate lous in the performance of promises; and inmate of the asylum, although Cautiouswhen they make mistakes that in any way ness usually exerts the stronger influence. subject them to criticism, they are as In the head of Laura Bridgman, the celemuch ready to condemn themselves as brated deaf, dumb, and blind woman, the others, who may be guilty of the same development of this organ is remarkable, and its influence as remarkable in her life.

Persons who have devoted themselves to a life of self-sacrifice in religious or benevolent lines, always show a conspicuous development of the organ. In Howard, who gave the greater part of his life to efforts in behalf of reforms in prison management, both in England and on the continent of Europe; Florence Nightingale and Clara Barton, who have shown so much devotion for the wounded and suffering on the battle-field; eminent leaders of religious movements, like Calvin, Huss, Knox, Wesley, Ann Lee, Conscientiousness is indicated as a prominent organ.



On the other hand, however, notorious criminals, men and women who declare themselves out of harmony with the laws and principles that govern human society and take occasion to deny them whenever mooted, are distinguished for want of Conscientiousness; their heads in the region of the crown are conical; Firmness and Self-esteem may be strong, but the head falls off rapidly on both sides, indi-

16. HOPE.

Directly in front of the organ of Conwhich it is situated: and to that form of line drawn upon the head perpendicularly

HOPE. 83

upward from the opening of the ear will pass just back of the space allotted to it. See Fig. 95. The function of hope imparts the tendency to believe in the future attainment of one's desires or objects. It looks, so to speak, into the future, and de-



Fig. 94. GEN. R. R. BEATH. HOPE LARGE.

That face indicates bravery, earnestness, enthusiasm, and whole-hearted zeal. He is the commander of the Grand Army of the Republic,

lights in the contemplation of the accomplishment of one's purposes. When active, it inspires cheerful, rosy views of life, dispelling doubt and fear of failure; and so it furnishes strong incentives to the activity of other faculties.

A large endowment of this organ, associated with large Acquisitiveness and moderate Caution, is usually found in the speculator, the man who boldly ventures, urged on by a confidence in his ability to carry a project through; such a man rises above failure; when misfortune comes he requires but little encouragement to forget defeat, and easily responds to fresh suggestions of success and fortune in the undertaking of new enterprises.

It is difficult to illustrate the development of this organ, but in the general rounded fullness of the top-head it is seen. Where the organ is small, and Cautiousness large, a person is lacking in enterprise, easily disturbed by checks in his career. Clouds seem to hang over his future, and as business men say, he "discounts" his bargains in the start; sees lions in the way of success. With Acquisitiveness large, he will seek to acquire wealth by a slow process of saving, being disinclined to speculative endeavor.

Upon the influence of Hope our argument in favor of a future life is largely based. It inspires conceptions of a "new and better country," where the wrongs, and inconsistencies, and limitations of this sphere will be adjusted. "The course of life is quickly run, and our objects and aspirations, our joys and our sorrows, are in the course of a few years numbered with the things of the past. But even when our earthly epxectations are extinguished in old age we are not left disconsolate, for Hope still reaches forward to the life beyond the grave, where happiness will abundantly compensate for the sorrow and pain we have experienced."

The poet Campbell has delightfully painted the relation of this faculty to man's after-sphere in the lines:

"Unfading hope! When life's last embers burn,
When soul to soul, and dust to dust return,
Heaven to thy charge resign the awful hour!
Oh, then thy kingdom comes, immortal power!
What though each spark of earth-born rapture fly,
The quivering lip, pale cheek, and closing eye!
Bright to the soul the scraph hands convey
The morning dream of life's eternal day—
Then, then, the triumph and the trance begin,
And all the phenix spirit burns within."

This organ was remarkably developed in Sir Walter Scott, and was the secret of his cheerfulness when bent down by misfortune and great debts. At the age of fifty-five, finding himself pressed by creditors, he calmly set to work to win by literary toil the money with which he should pay them, saying, "Gentlemen, time and me against any two; let me take this good ally into company, and I believe I shall be able to pay you every farthing."

A few years ago a case of the strong in- coming from a remote sphere with mis-

fluence of this organ was brought to the siens of good or bad purpose. To use the notice of the writer. A school teacher in language of a writer who has carefully anthe West had been shot in the head by a alyzed the faculty of faith in man: "The jealous acquaintance, and although the truth that presses most closely upon the wound penetrated deeply into the tissues interests of a living man is that by which



Fig. 95. Bessie Inglis. Hope Large. of the brain, and was considered necessarily fatal by the physicians who attended him, yet he triumphed over its morbid effects and lived three years. Before and after the injury his disposition was distinguished for spirit and buoyancy, and by the ever present quality of high expectation. His conduct, indeed, in this respect seemed marvelous to all who knew him. After his death an autopsy was made, and his brain examined; and one of the physicians present described to the writer the existence of a remarkable elevation in a part of the superior frontal convolutions, the elevation rising considerably above the surrounding tissue. The region assigned to this conspicuous development accorded with the location of Hope; and the fact is a fresh addition to the surgical history of Phrenology.

17. SPIRITUALITY OR MARVELLOUS-NESS.

Man in all ages has shown a strong conviction with reference to the existence of supernatural beings; he has always entertained instinctive ideas that there were



Fig. 96. F. LEYPOLDT, Publisher. SPIRITUALITY, IDEALITY, AND IMITATION LARGE.

A fine temperament, indicating the Motive and the Mental in predominance; that is a strong, self-reliant nose; that face shows push, positiveness, and power, and his Phrenology, broad above and about the ears, shows that he might have been a leading man anywhere, even in an army. His large Language perhaps led him in the direction of literature, and would have made him a fine orator. The large and well developed chin shows good vitality and strong affection; his large perceptive intellect made him practical, and that splendid upper forehead gave him far-reaching logical power, while the broad temples indicate invention, refinement, Spirituality, and elevation of mind. A good head and face.

he recognizes in himself the possession of an indestructible power, independent of and commanding his physical organs, and without the consciousness of which all his aspirations for future happiness, all his yearnings toward perfection, all his sense of responsibility for good or evil can only be regarded as vain and idle dreams. His reason will never prove the existence of a soul; it will show that the existence of a powers or influences at work in the air, or soul may be inferred from the tendency

of his desires, and that is calculated to encourage the belief. But is it to be sup- eminent for their belief in some spirit posed that our Maker would suffer us to demon or inexplicable influence that bore roam without some instinctive knowledge an important relation to their success or of our dependence upon His power, His failure in life. Socrates had his Dæmon; His inclination to bestow upon us future of reason the belief that we possess an immortal, an indestructible soul, by which in communication with angels and spirits. those qualities and hopes may eventually find exercise in a higher sphere? To this question, we believe that Phrenology will answer no." *

mate world.

The situation of this organ is in the superior sincipital region of the brain directly in front of Hope. Fig. 68. Its function, as already shown, is to inspire and breadth to the top-head. Its action belief or trust in the strange or marvelous. The workings of Marvelousness may be deemed for the most part as of a relibearing upon the relations of the physical life of man, and is the basis of our longing after novelty, thus becoming an important element in intellectual progress. Dr. Gall was led to its discovery by observing that some persons imagined themselves to be visited by apparitions of the absent or dead friends, and when he found that men of no mean intellect believed in the reality of ghosts and visions, he was compelled to ask, Are they fools or imposters? Or is there a particular organ or special faculty for impressing upon the human understanding those peculiar illusions of sentiment? Following up the matter by careful examination of the heads of persons known for uncommon qualities he settled upon the location and function of this organ.

Leading men in every age have been Benevolence, Justice, and perfection, and St. Paul describes certain experiences with supernatural beings; Swedenborg behappiness? would leave to the inference lieved that the Lord manifested himself personally to him, and that he was placed The development of Marvelousness is very marked in the head of this last distinguished philosopher and church founder. Napoleon believed in his star; and women Phrenological science does teach, and in are to be met with in society who have irthis respect it stands quite alone among resistible impressions and leanings, prethe physical sciences, that man has been monitions, and communications. There endowed by his Creator with a faculty are some who exercise the calling of that inspires a belief in the existence of a "clairvoyants" who are thoroughly sinspirit or Psyche, and prompts us to con- cere in their belief that they are endowed sider with awe and wonder the phenomena with extraordinary powers in the way of of life and the mysterious relations or reading the future, and some of these workings of the animate upon the inani- have given accounts of extraordinary events in the history of individuals and nations that subsequently were practically verified.

This organ when large imparts elevation is marked in the language and character, lending enthusiasm to effort in any philanthropic direction, inspiring devotion gious nature, but it has an important and self-sacrifice. In poets, artists, and sculptors of eminence it is uncommonly large. In great inventors it appears to perform a very important work, and we think it lies at the basis of a disposition to pursue difficult or prolonged scientific investigations; suggests motives and quickens the impulse toward discovery that dominates the mind of the scientific enthusiast. In Ann Lee, the founder of the Shakers, this organ was most extraordinary in its development. In Loyola and Whitefield it was also very large. Those, however, who exhibit scepticism and incredulity in regard to novelties or discoveries, and especially those who are disposed to carp at and ridicule religious subjects have it small or inactive. In Thomas Paine and Voltaire it was decidedly weak. In the late General Gordon, * M. B. Sampson-Am. Phren. Jour. vol. I. who perished in the Soudan war, Spirita-

ality was large, and imbued his character tribe of people yet discovered, whether led him to despise danger.

guish man above the brute. To a degree, their gaze upon insects, inform us that treat Veneration as an original power. bees, ants, wasps, show in their habits very surprising qualities of reason. When it comes, however, to the consideration of those elements that give man elevated views of life, that lift him above selfish considerations and open up enjoyments that are pure and unalloyed, he stands much above brute creatures. Man has all the physical instincts that are found in the lower animals; added to them are impulses, and yearnings, and sentiments that cast a flood of light over the common affairs of every-day life. The gratifications of the lower animals are found in the exercise of their selfish propensities; the higher enjoyments of the human being flow from the exercise of his spiritual nature—the development of his organism in which self-gratification has no place.

Considered in their special natures, the moral organs, as we have thus far defined them, have no selfish relation; they lead one to acts that are beneficial to others. or to confer some service, or make some sacrifice of himself. They are opposed to those sentiments that would promote the success or glory of the individual or distinguish man above his fellows.

18. VENERATION.

uated in the summit of the brain directly duce the sentiment of reverence in gen- old pottery, relics, brasses, postage stamps, eral; a disposition to worship a Sur"eme coins, etc. This is one of the eccentric

with that enthusiasm and confidence that savage or barbarous, have shown a disposition to worship something, whether It is in the class of faculties known as stocks or stones, beasts or images, the sun, the moral sentiments that we find the the moon, the stars, spirits of the air, of leading marks of difference that distin- the ocean, or of the mountain, of light or darkness; and from this universal tenthe lower animals possess mind, and ob- dency to worship, it is but a natural inservers have furnished us with surprising ference that the disposition is innate. accounts of the intelligence of dogs, and Strange as it may seem, however, Phrenhorses; and some who have concentrated ology was the first of mental systems to



Fig. 97. Rev. Dr. Dowling, Veneration Large. Weighed nearly three hundred pounds, and had a mighty brain; was an orator, thinker, writer, and excellent preacher.

The phrenological writers have defined this organ as having special reference to man's recognition of his dependence upon God, and therefore as the inspiration to devotion, the rendering of praise and thanksgiving upon all suitable occasions. But the sphere of the organ is not confined to religion; it has an important bearing upon the every-day affairs of human life, inspiring respect for authority, deference toward superiors, and respect for the great and good. Combined with large Approbativeness and moderate Conscien-Through this organ the chief faculty of tiousness and intellect, it leads a person the moral nature is manifested. It is sit- to pay court to persons of rank and wealth, and where the intellect is not sufficiently in front of Firmness; below it lie Hope enlightened it may produce a bigoted reand Marvelousness-a provision of nature spect for all old customs and absurd inwhich is very striking in itself. See Fig. stitutions. There are people of means 95. The influence of this organ is to pro- who are given to making collections of Being. Its history is remarkable. Every forms of the exercise of this organ.

disturbed action among the insane; every asylum contains patients who have an excessive exaltation of the devotional feelings, and the organ in these cases is generally large in the head. But Veneration may be large, and unproductive of its special phenomena in a brain that is lacking in other moral qualities and excessive It has been found in the propensities. large in murderers, not only those, who were unbalanced generally, and by its undue excitement deemed themselves instruments of Heaven in riding the world of a person who had incurred their displeasure, but also in persons who in other respects showed little or no want of mental lucidity. The German woman Gottfried who poisoned upwards of fifteen persons, was much given to attendance upon religious meetings, and her fervor in such exercises disarmed suspicion concerning her connection with the sudden deaths of friends and acquaintances and people with whom she lived.

Those who have the organ small are known for a want of tender respect for God and man. They are careless in the observance of social uses, as well as the ceremonies of religion.

This organ is subject to culture and growth from a state of inactivity, until it exercises a profound influence upon the character. In the realm of moral sentiment organization is made happily responsive to methods of training, change, and conversion, and at any age there may be reformation and improvement.

A Western missionary having a large territory under his supervision, mentioned a case to the writer that came within his experience. A man or notorious character was converted through his instrumentality from his wayward life. At the time of the conversion his head was low and flat, and his physiognomy expressive of his lawless disposition, but a marked change became apparent; the region of Veneration having risen fully one-half inch in height, as shown by careful measurements taken by the missionary himself, while the character had so remarkably al-

We find instances of its excessive and tered that the man was no longer recogsturbed action among the insane; every nized as the frontier ruffian, but as the slame contains patients who have an ex-

There have been many who have shown a cruel and vindictive spirit in the assertion of their religious convictions. Phillip of Spain possessed large Veneration, and so did Loyola, the founder of the order of the Jesuits, yet these men possessed elements of coldness, severity, and cruelty that were shown in their efforts to enforce the authority of the Roman Church. There may be humility and zeal in religious observance, associated with a vacillating, selfish, and vicious character; generosity, kindness, tenderness may be on one side, and disregard of duty, forgetfulness of obligation, injustice on the other. In the American character, speaking generally, there is comparatively little Veneration; hence, the lack of deference that so much mars our society, and which is often so very conspicuous in the conduct of our young people, while Benevolence is developed in a good degree, and Conscientiousness is not with out some influence.

19. BENEVOLENCE.

The relations of man to man and of man to his surroundings demand for their well being the exercise of sympathy and kindness. There are great differences in condition among us; some appear to be born to sorrow and suffering, weakness and dependence; for their support they must look to those who are strong and well. The sentiments of kindness, or in a broader sense, charity, incite those who are able to confer benefits on others, and with the doing, delightful feelings are experienced, and without any expectation of a return. The cheerful giver feels a fullness of heart and an exuberance of joy that can not be measured by words or counted by dollars.

Benevolence, as a faculty, has the welfare of mankind in general as its object. Other faculties are concerned in loving individuals, family, friends, objects in which we have personal interest, and therefore may be said to be influenced by selfish motives to a degree. Benevolence,

however, has a place entirely apart from pressing peculiarities that may be disaselfishness; its universality of application excludes the idea of personal gain, the motives of self expansion. It would bestow its kindness upon all creatures. It goes out with pure and disinterested motives



Fig. 98. J. S. ROUETT, Chairman of the Cattle Convention, St. Louis. Benevolence Large.

A man adapted to be a leader wherever his culture may qualify him to move. A strong face, a good forehead, especially in the practical department; is a man of resources, faith in the future, inventive power, and ability to push the cause he adopts.

to the stranger, the afflicted, the humble, those whose condition precludes any return or degree of reward seem to afford it special pleasure in the exercise of its functions.

The organ of Benevolence is situated in the anterior part of the top-head in the centre just forward of Veneration. Fig. 68. When large, the forehead rises high and has an arched appearance, and when small the upper part of the forehead appears to recede and is comparatively low. This organ exercises a powerful influence upon personal character; when large and active it inspires sacrifice in leading the person to set aside his own purposes when they would interfere with the comgreeable or give annoyance to others; and so also it is conciliatory, and inspires allowance for what is irregular, improper, vicious, or even criminal in others.

In excess, and unrestrained by a well developed intellect and Acquisitiveness, it leads to extravagance in generosity, so that the person will impoverish himself and expose his health unnecessarily to injury in a career of supposed philanthrophy. An Englishman, by the name of Gosse, was so largely endowed with this faculty that he gave away two fortunes to charitable objects. He could not resist any solicitation for alms, so that in order to save a third bequest from entire loss he placed it in the hands of an agent, who was to supply him with certain amounts of money for his purposes. In all men distinguished for philanthropical earnestness Benevolence is large. Men who give their time, talents, and money to promote schemes of benevolence, like Howard, Father Matthew, Elizabeth Fry, or Judson, have the organ very large. Those, on the other hand, who are distinguished for cruelty, avarice, and exaction in their business and social relations, have the organ in but small degree.

The organ is found large in some animals, especially dogs and horses may show it; in the latter it occupies the head above the eyes, and when that region is small and narrow the horse may be regarded as tricky and vicious, and disposed to bite or kick. A horse, on the contrary, that shows considerable breadth and fulness in that region, will be gentle, patient, and good-natured. Dogs that are distinguished for amiability and docility have the organ large. The head rises prominently above the eyes, and is rounded between the ears. Newfoundland, St. Bernard, and shepherd dogs are so characterized. The bull-dog and terrier, we find, have heads that are comparatively low and flat back of the eyes, and they are excitable, irritable, and peevish. The Skye terrier may have a well developed crown, but his head is very fort of others. It is a sentiment that re- wide in proportion to its size, giving him lates to the cultivation of character, sup- large Destructiveness, which accounts for

noyed. A Massachusetts paper lately mediate injury, but when he discovered trespassed upon private grounds, and was appeal for the child's relief.

known irritability when teased or an- ness and Destructiveness to threaten imsublished an interesting account of a that the boy was hurt by his fall, the faclog's sagacity that illustrates the action ulty of Benevolence was aroused, and led of Benevolence in a striking way. A boy the dog to make, in his dumb fashion, an



Fig. 99, FAITH; Fig. 100, HOPE; Fig. 101, DISCONTENT.

We see the calm, assured trust of Faith, and the exalted face of Hope, gazing with steady eyes on the rich prospect that mantles her horizon with glowing beauty. But restless, impatient, envious Discontent frowns, and would rob the sisters, Faith and Hope, of their joy; she is wretched, and the happiness of others adds to her misery and malice. Note the baleful glare of her jealous eyes, and the malice in the curl of her sneering mouth, while love and kindness dwell on the lips of the sisters.

seen and pursued by the dog which belonged to the owner of the grounds. While the boy was running to escape from the dog, he fell and injured his leg so much that he could not get up at once and he lay crying with fright and pain. The dog, though in full pursuit, on hearing the boy's cries stopped, and ran home, where by constant whining he insisted upon his master's following him out into the lot where the boy lay. In this we have an excellent example of the influence of the influence of Benevolence and

PHYSIOGNOMY AND RELATION OF THE MORAL ORGANS. Fig. 99.

All the moral organs have their signs more or less expressed in the physiognomy, and especially in the conduct and attitude. Conscientiousness strong imparts a grave and even stern expression to the face. Hope imparts light, a sort of forward look and cheerfulness; in one with a good degree of the Vital temperament, it inspires a marked sprightliness in the play of the features, and buoyancy and life in the attitudes. Spirituality imother organs in a brute. When the dog parts a calm, peaceful, confiding expresfound the trespassing boy on his master's sion, with a tendency to uplift the eyes. property he was incited by Combative- We see it finely expressed in the portraits

of saints by old masters. soft and pleasing, the voice is smooth and God and man. sympathetic, and the attitude is that of forbearance and concession.

upon the influence of other organs. Men with large Conscientiousness, strong physical powers, broad heads, Secretiveness, Destructiveness, and Combativeness being potent, and Benevolence being moderate, have been distinguished for cruelty and even tyranny. Who has not heard of the invincible Roman judge who could condemn his son to death with a calm voice, that the laws should be vindicated? We think it likely that the notorious Judge Jeffreys, in the days of the English Restoration, possessed a good degree of Conscientiousness that led him to an excess of zeal in his loyalty to the cause of the Stuarts, while his great Destructiveness was exercised in his terrible sentences upon the disloyal.

We have occasion often to say that a person under our hands shows "more honesty than piety," more kindness than spiritual aspiration. Faith, however, is widening to-day, and scoffers at religion, Ingersoll to the contrary notwithstanding, are diminishing. There may be less of ritualistic pretension, less regard for ceremonial observances and religious formality, but Faith is deepening its hold on the heart; the belief in the truth that God is the Father of all, and never wanting in care toward his creatures, is growing broader and more influential. The Humes and Gibbons, Rousseaus, Paines and Voltaires have done in their way work that was really serviceable to humanity. They have stimulated thought in the direction of religion and morality, and brought pared with a bear, to all outward seeming more conspicuously to our nature the re- the bear has almost every advantage. He lation of the soul to spiritual things; they has a coat which keeps him warm in winhave indirectly opened our vision to the ter, never becomes unfashionable, never unity and harmony of truth. Such unbe- wears out, or needs repairing. His teeth lievers represent a class that is small as are strong for defense and for providing compared with the great mass of the edu- himself with game as food. His claws are cated, and their cynical flings and con- long, strong, and sharp, with which he

Veneration to awaken minds that may have been dorstrong, imparts a rather humble demeanor. mant hitherto to an interest in matters of Benevolence imparts a general air of ten- the higher morality, and stir up a disposiderness and kindness; the expression is tion to a better recognition of duty towar

As an explanation of the true relation of man to the world of matter and the The action of these organs is dependent realm of Spirituality, Phrenology is the ONLY SCIENCE that can make them clear and harmonious. If the unity of science and religion can be demonstrated it must be the work of science, because religion is a sentiment, and therefore, in itself blind, while science is the offspring of faculties, whose function it is to see and know, and these faculties are brought by the very nature of Phrenological methods into the closest approximation to the feelings. The intellectual eye is made to cooperate in its upward range with the spiritual eye, the heavenly light illuminating and clearing the vision of the former. Thus Reason is led to wait in Faith, and that "pure religion and undefiled" that exalts humanity and makes it meet for a future and a better country is seen to be but a right and privilege founded in man's very nature.

SEMI-INTELLECTUAL SENTIMENTS. 20. CONSTRUCTIVENESS.

"Constructiveness lays the foundation for mechanical taste and skill, and from its exercise nearly everything which adorns and blesses life proceeds. If we look abroad we see scarcely anything the the hand of artistic and mechanical skill has not produced. Man has been called a 'tool-using animal.'

"Physically considered, independently of intelligence or tools, man is far inferior to some of the lower animals. Let man stand up in the forest naked, and if comtemptuous allusions to religious faith help may dig roots, or climb trees, or hold his

teeth, nor has he a garment of fur to protect him from storms and the cold of winter, but in process of time his intellect



Fig. 102. C. C. Baldwin, Commissioner of the New Aqueduct for N. Y. Constructiveness Large.

He is a merchant of high standing and decided sucess; the fullness in the temples shows large Contructiveness, and the width above and about the ears shows force and executive ability, with talent for ananciering; this is a powerful face and a grand head.

and constructive talent have projected those defenseless fingers of his into a thousand lines of productiveness. He contrives weapons of defense and offense which make the bear his prey, and converts his warm robe into a coat for the captor. To protect himself from the storms of winter he builds houses; he works metals into all sorts of tools, and uses those tools for every imaginable purpose. In the process of time, although the bear has remained stationary, man has made great progress, and populous cities, com-

prey. Man has neither claws nor strong ilization occupy the place where the bear once roamed the master, that animal having retreated to the forests and fastnesses of the mountains, and timidly fleeing at the approach of man who, at the beginning, seemed so inferior.

"Without Constructiveness, no men could live where winter reigns three or four months in the year; and we find in the hot climates, where houses and clothing are comparatively unnecessary, the faculty of Constructiveness is not much developed. Without the use of tools man would indeed be helpless. He might, like the squirrel, lay up nuts for the winter, but how could he construct a shelter or clothing with his naked hands? The squirrel has the means with which to dig and burrow, or to gnaw his passage into a hollow tree, but without the agency of tools man could accomplish neither of these results.

"The bee, the beaver, and bird build in a specific way in obedience to fixed instincts, but they use no tools, and the order of their mechanism is generally low and simple. And though the bird builds a nest, the bee its cells, and the beaver its dam, thus evincing the building instinct, but man possesses a manufacturing talent far beyond merely instinctive efforts. He combines intellect and senti-



Fig. 103. Rev. George Eaton. Constructiveness

ment with Constructiveness, and by invention carries out new plans for the merce and art, have sprung from his production of whatever he desires. The plastic hand, and all the appliances of civ- printing-press and the art it subserves

the power-loom which seems almost possessed of intelligence, the ship, the steamengine, and the machinery it impels, electrical apparatus, and all the articles of convenience, utility and ornament which fill and bless the civilized world, grow out of this great but often much neglected element of our nature.

"If we would go out of the path of constructive and mechanical skill we must go into the wilderness where nature, rude and luxuriant, untrimmed and untrained, acknowledges not the hand of culture; but where civilization reigns, we can hardly see an object that mechanical skill has not wholly or in part developed. Mechanism now does much of the work of agriculture as well as of manufactures and art.

"A faculty so useful as this, so indispensable to the welfare, happiness, and development of the human race, should be carefully and perseveringly cultivated. Attached to every college, instead of the gymnasium, or in addition to it, there might be shops in which useful industry could be employed, and while the student would be taking needed exercise with the saw, the plane, and the hammer for the benefit of his health, he might learn to build wagons, make chairs, cabinet furniture, and a hundred other useful things; then, while following a 'profession,' if he were to lose his voice, he would not necessarily become a pauper. We have not the slightest doubt that any well-developed boy might obtain a good book education, and with proper opportunities learn some useful trade at the same time.

"But,' says one, 'I am to be a merchant, therefore what do I want to know of mechanism? Why should I cultivate my Constructiveness?' To such a one we may reply, What do you intend to deal in? If in pork and lard, salt, grain, plaster, or lime, you could get along very well with small and untrained Constructiveness; but if you wish to deal in manufactured goods, in anything that involves the principles of mechanics, you will find your success greatly augmented by large, active, and well-instructed Constructiveness. Take, for example, the hardware

trade. Everything in that line is manufactured, combining various mechanical operations in its structure and use. The very simplest article in that line of trade, a cut nail, to be made properly, must be a slim wedge, equal in thickness from end to end one way, and a double inclined plane the other way. If it have not this form it is useless. Let two young men engage in the hardware trade side by side with equal capital and equal intellectual business talent and energy, but with this simple difference, that one has large and the other small Constructiveness-one of these men will become rich and the other will fail, and why? The one having large Constructiveness understands the working qualities of every tool, machine, and apparatus in his shop, from a turning-lathe to a mouse-trap, and can explain these qualities to a customer in such a manner as to display them to advantage. If a new lock, wrench, window-spring, doorknob, or other patented curiosity be offered for him to purchase, he sees at a glance whether it is likely to supersede all others or fail and be worthless, and he buys or rejects accordingly. The other man, his neighbor, having small Constructiveness, will show his goods and call them strong and handsome, but will never display and explain to his customers their internal workings, and show their new and superior qualities over all other methods, simply because he does not appreciate them himself. If the most desirable improvements are offered him, he dare not purchase on his own judgment; or if he buy a little of everything, he is sure to lose money on useless articles that will lie rusting on his shelves."*

21. IDEALITY.

"This faculty is adapted to beauty, perfection, and refinement. The mind of man, to be in appreciative harmony with the wide domain of earth and air and sky, should possess a faculty bearing the same relation to beauty that the eye does to light.

^{*} From "Choice of Pursuits."

"As a counterpart to the plenitude of exquisite beauty and elegance which bestud the earth and sky—

"That warms in the sun, refreshes in the breeze, Glows in the stars, and blossoms in the trees,"

the faculty of Ideality is given to man,



Fig. 104. Mrs. W—, Poetical. IDEALITY LARGE, Strong Mental Temperament; Reason, Imagination, Spirituality, Integrity, Reverence, with decided force

by which he appreciates them; and not only these physical adornments furnish it food, but all the poetry of thought and expression that charms the world, and all the polish and elegance of manners which constitute the grace of good breeding, arise from and are addressed to this faculty. Moreover, Ideality, acting with Spirituality, is an element of imagination, and in conjunction with Constructiveness gives creative fancy and invention, especially to the speaker, the author, the mechanic, and the artist.

"If we look into the realm of manufactured goods, we shall find that more than one-half of all articles intended to serve

purposes of utility, have also qualities of beauty and decoration, so that although strength, durability, and convenience may stand forth so prominently that the purchaser may see and admire them alone, yet polish, neatness, gracefulness, and elegance of form and of finish are added to strength, in order to please the eye and gratify the sense of beauty; just as politeness of manner in human character adorns the sterner virtues of good sense and integrity. Surrounded, then, as we are, by all the gorgeous garniture of nature, and by so many opportunities for artistic decoration, how important does the cultivation of Ideality become, that we may properly enjoy the beauties of nature and the elegant adornments of art!

"Besides, these articles serve to refine and elevate the mind. Coarse thoughts are apt to dwell with coarse external objects, while beauty begets a polished imagination and correct taste, which flow out in politeness of language and manner. We therefore urge the cultivation of Ideality upon all who have the charge of the education of the young. Let every flower make its impress on their minds, and every form of beauty in nature and art exert its refining influence upon their



Fig. 105. AMERICAN INDIAN. IDEALITY DEFICIENT. characters. Teach them not only refinement of mental action, but an elegant and polished mode of expression, and you have done much to make them beloved and happy."

^{. &}quot;Choice of Pursuits."

B. SUBLIMITY.

Sublimity appreciates the vast and grand. The organ (Fig. 106) is located between Ideality and Cautiousness, and



Fig. 106. Auguste Bartholdi, Sculptor, France. Author of the statue of "Liberty Enlightening the World," erected on Bedloe's Island, in New York harbor. Sublimity, Ideality, and Constructiveness

when large gives width to the upper and lateral portions of the head. Some writers speak of the sublime and beautiful, as if appreciated by the same sentiment; we think the difference is wide. Ideality recognizes the exquisite, the beautiful; Sublimity rejoices in that which is startling, terrible, majestic, like the tornado, or the cyclone at sea, which

" Takes the ruffian billows by the top, Curling their monstrous heads and hanging them With deafening clamors in the slippery clouds."

Some writers and speakers delight in a startling and majestic style; they use such words as terrible, vast, awful, tremendous. The thought of eternity awak-

ginning, and shall be no ending is food for this faculty. Those who delight in climbing high mountains or embody them usually in their paintings will be found having large Sublimity. It is located next to Cautiousness, as if there were a community of sentiment between the two, yet we occasionally find persons having large Sublimity, with a moderate share of Caution, and the reverse.

22. IMITATION.

This organ is located outward from Benevolence and backward from Agreeableness. Fig. 107. In the nature of things it is desirable that people should have some common mode of doing and acting. Public sentiment is the outgrowth largely of Imitation, hence in dress, furniture, houses, carriages, conversation, walking, working, people incline to conform to others. Children imitate their parents, and younger

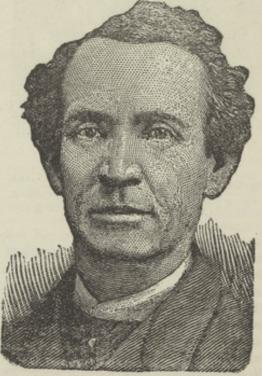


Fig. 107. W. A. DAILY, Life-Saver of California. Has saved thirty-two lives. A large head, fine in tellect, large Constructiveness and Mirthfulness, and especially large Imitation and Agreeableness.

children try to do that which their elders in the family do. It is amusing to see the ens in the mind the most intense sublim- little four-years-old girl manipulate her ity. The thought that there was no be- doll as the mother does her baby; she LMITATION. 9

wants a cradle, a perambulator and a crib for her doll, and studies to treat that doll just as the mother treats the baby sister. Little children are delighted with housekeeping implements, and go through with all the ceremonials of receiving calls, of setting the table, and even go so far as to have something they call tea, and food on their little plates, and invite their mates to take tea with them.

Thus it will be seen that the faculty of Imitation is a wonderful educator, especially in the human race; in general the lower animals follow a certain instinct, doing as their progenitors did, and without their present example. The gosling needs no advice, or counsel, or example to teach it swimming; the pet bird, or the lonely pair of birds, build without instruction a nest such as their anaestors had built since the flood.

The human race being endowed with reason and moral sentiments, and not confined like animals to mere instinct only, may well rise above instinct through reflection and imitation, and copy that which is higher and better than previous experience and custom had taught them; thus people go from rude conditions into better, and learn to conform to the refinements of culture greatly to their advantage.

It is interesting to go into a great notel, where there is a rush of emigrants and pioneers, and adventurous business men, as well as men of better culture, and notice how such a variety of people will eat and drink. One man pushes his food into his mouth rudely with his fingers; another shovels it in with a knife; another will eat with his fork, but will use it as if it were a pitch-fork; another, even amid such coarse surroundings, will eat with all the grace and refinement that adorn table habits.

One of the marvellous results of Imitahion is seen in the use of speech, in emphasis and intonation. If one travels in Italian and the Spaniard were to exchange America from Maine to Texas, and thence by way of California and Oregon around native Irish pronunciation, and a similar to Minnesota, he will find that there are local fashions of pronouncing words, that

belong to and identify the people of the different States; and the man who resides in New York, which is cosmopolitan, will learn to recognize the people from the different New England States, from Pennsylvania, from Virginia, and notably from Tennessee and Kentucky and the Carelinas. Then in the great middle West there is an amalgamation of all the modes of pronunciation, that belong to the other parts from whence the inhabitants of these middle States have come. A man, living for instance, in Indiana and Illinois, will have something of the vernacular of the New Yorker and the New Englander in his pronunciation, with, perhaps, a touch of Scotch, English or Irish, as obtained in his neighborhood by a mingling of peoples from all these different parts.

People often think that Imitation must be employed in mimicry, in assuming character, in acting boyish pranks, facial contortions, and in the personation of people by pantomime, gesticulation and shrugging of the shoulders in speaking; but these are only some of the intentional methods; there are a thousand imitations that are without intention; they become automatic. In certain sections of England men can not use the h, when preceding the a or o, without a particular effort; they must say "'orse" and "'otel," "'ouse," and "'ome," and "'Arriet," just as in this country it would be hard for a man to say "Honor" and "Honesty"; we pronounce these words as if they were spelled "Onor" and "Onesty," yet we have heard men say, "Hi ham ha honest man."

Let this faculty be used by persons in a proper way, copying those who have better culture; let it work toward refinement, and not toward the low and coarse, and it will be a blessing and a boon. And to intensify our idea of the reality of Imitation, and its fixed force upon character and speech, suppose the German and the Irish, the English and the French, the Italian and the Spaniard were to exchange babies, the German child would have the native Irish pronunciation, and a similar effect would result in the other cases, though the original dispositions of the

people might be largely maintained, the German-Irish baby would be cooler, and the Irish-German baby hotter in temper, than those by whom they were surrounded, but the associated speech would be copied.

23. MIRTHFULNESS.

Man is the only being that laughs, and although wit may be used as a lash with which to scourge others, or be made the basis of frivolity, nevertheless it is a hu-



108, Mr - Mirthfulne

man trait, joy bearing in its nature, and rightly used is an aid to virtue and morality. This faculty, under the influence of the moral sentiments and the intellect, may be made salutary when used to shame error and impropriety out of countenance, and to urge a reform that would otherwise be out of the question. The organ of Mirthfulness is located at the upper and outer angle of the forehead, giving width, fulness, and squareness to that part. See Fig. 108.

No subject is better appreciated than wit or Mirthfulness, yet there is great difficulty in defining it. In the mind of man there is a primitive, independent faculty that enables him to enjoy sport, and to catch and appreciate the witty, the ludicrous, the comical, the incongruous, the eccentric, and the absurd. Animals do not laugh or comprehend the causes of laugh-Sometimes animals feel ashamed when laughed at, but that arises from Approbativeness, not from Mirthfulness. One of the wittiest definitions of wit is that of Heniker, who, on being asked by the Earl of Chatham to define wit, answered, "Wit, my lord, is like what a pension would be, given to your humble servant, a good thing, well applied."

We laugh at that which is absurd, though it be not witty. Innocent ignorance is ludicrous; that which is incongruous or ill adjusted is an occasion of laughter to others. The most laughable things are those which are called bulls or blunders. The first printed article of a burial society in Manchester, England, reads thus, "Whereas, many persons find it difficult to bury themselves." Sir Boyle Roche, a member of Parliament, was full of these bulls. Two or three of his immortal bulls may be here preserved. "Sir," said he, addressing the Speaker, "I smell a rat brewing in the storm, but mark me, I shall yet nip him in the bud." "Single misfortunes never come alone, and the greatest of all possible misfortunes is generally followed by a much greater." When contending for the proper dimensions of the wine bottle he proposed to Parliament that "it should be compulsory that every pint bottle should contain a quart!" Again, "I do not see, Mr. Speaker, why we should put ourselves out of the way to serve posterity; what has posterity done for us?" Disconcerted by the bursts of laughter which followed, he quickly added, "By posterity I do not mean our ancestors, but those who are to come immediately after them."

During the late American war, a famous Irish regiment was dining together while investing Richmond. Captain Murter which followed this, aroused him to a fresh effort to say something which would retrieve his own blunder and the apparent disgrace of the regiment, and as soon as he could make himself heard, he mounted a chair and shouted, "The glorious Sixty-ninth, the last in the field, and the first to leave it."

An Arkansas soldier being wounded in the leg at the battle of Buena Vista, asked a fellow soldier, an Irishman, to bear him off the field. The latter did so by seizing the man and strapping him on his horse, Pat getting astride in front of him. During the ride the wounded Arkansian had his head shot off by a cannon ball. Arriving at the surgeon's quarters, the Irishman was asked what he wanted. brought this man to have his leg dressed." "Why," replied the surgeon, "his head is shot off." "The bloody liar," exclaimed Pat, looking behind him, "he tould me he was shot in the leg."

Genuine wit does not always excite laughter; it sometimes takes the form of satire. The retorting of one's joke upon himself, the hanging of Haman on his own gallows indicates wit; when a person is driven into a corner and can manage to catch his opponent's arrow and throw it back at him effectively, it shows the highest type of wit. It depends altogether upon the faculties with which wit unites, whether it be unwelcome satire, or a pleasant joke at which all may laugh, or that which rankles forever. Two sons of the green Isle traveling together came in sight of a gibbet or gallows in a lonely field; one of them said to the other, "Pat, where would you be if that gallows had its due?" "Och," he replied, "I would be walking alone."

Sheridan, the great Irish orator, was greatly annoyed by a fellow member of the House of Commons, who would frequently and inappropriately cry out, "Hear, Hear." Wishing to silence the brawling member, Sheridan took occasion in debate to describe a political contemporary that wished to play the rogue, and

phy offered a sentiment, "The Sixty- who only had sense enough to play the ninth, equal to none." The roar of laugh- fool. "Where," exclaimed he with great emphasis, "where shall we find a more knavish fool, or a more foolish knave than he?" "Hear hear," was shouted from the troublesome member. Sheridan turned round, and politely thanking him for the prompt information, took his seat amid the roar of the House.

> The modern method of bad spelling is laughable because droll and unusual, but the wit does not consist in the bad spelling, but in the sentiments set forth.

> When the organ is developed low down toward the Perceptives, there is a tendency to humor; when developed high up, as if working with Reason and Ideality, we have the highest type of wit. *

THE INTELLECT.

Phrenologically considered, there are two classes of faculties, the reasoning and perceptive powers; the two combined make up the intellect.

The reasoning organs are situated in the upper part of the forehead, while the perceptive organs are located across the lower part of the forehead, and impart to it sometimes a retreating appearance, especially if the organs of perception are much larger than the organs of reflection. These groups of organs are judged, not so much by their prominence as by the length of the head from the opening of the ear to their location. Some people have a short forehead, but it being perpendicular and high it is supposed by some to show a good intellect, when in fact in that head the anterior lobes of the brain in which the intellectual organs are situated are short and comparatively small.

For every quality of matter, man has a corresponding mental faculty; Individuality takes cognizance of things as mere existences, without reference to bulk, shape, density, color, number, order, place; it appreciates the divisibility of matter; Form judges of shape, Size of extension or bulk, Weight of density or ponderability, Color of hue. Order of ar-

^{* &}quot;How to Teach."

rangement, Calculation of number, Local- that may be seen and nothing escapes ity of place or direction, Tune of sound, Time of duration, Eventuality relates to scenes, facts, or transactions; these combined and well developed give practical talent and gather data for the use of the reas ing faculties.

their attention. It opens the door for the action of all the other perceptive organs.

25. FORM.

This recognizes another quality of matter aside from mere existence. In spel-

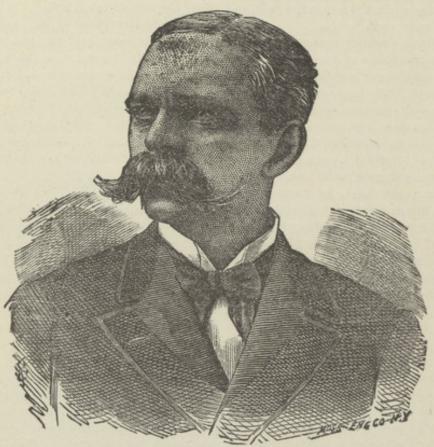


Fig. 109. C. E. CADY. IMMENSE PERCEPTIVE ORGANS. Teacher of Penmanship and Business Education.

24. INDIVIDUALITY.

This is the first organ of the perceptive intellect; it is located just above the root of the nose, and gives a recognition of things and of the special points and facts of subjects; quickness of observation is an important element in the acquisition of knowledge, but this faculty has to do with the mere existence and not with the quality of things; it recognizes things merely as things, without caring to know whether what is seen is chalk or turnip, bees-wax or cheese, it is a thing, and that satisfies

ling, writing, drawing, mechanism, art, and in acquiring knowledge of things it is indispensable. The organ of Form is located on each side of Individuality, and when it is large it has the tendency to push the eye-balls apart, showing a distance between the eyes. When small, the eyes are nearer together, which gives a pinched expression to that part of the face; when the organ is large, the eyes appear to be separated, pushed away from the root of the nose. Distinguished artists have the eyes widely separated. Occasionally there are twins who so fully re-Individuality, that fills its mission. Those semble each other in form and in other in whom it is large are eager to see all qualities that those best acquainted with

and mechanics who draw, paint, model, magnitude; this differs from the quality Form; those who learn to write handorgan of Form large.

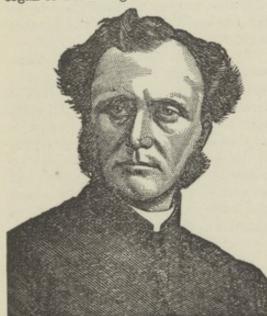


Fig. 110. BISHOP LEWIS. FORM LARGE.

26. SIZE.

This faculty gives the power to judge of magnitude in general, distance, height, and depth. The organ is located outward from Individuality on the inner angle of



Fig. 111. J. S. MILL. INDIVIDUALITY LARGE. the eye-brow. This faculty is adapted to that quality of matter called extension; everything that we can imagine that is

them can not distinguish them. Artists tangible occupies space, has bulk, extent, cut, fashion and shape things by the eye, of Form, for things may be of the same need to have a large development of form though of very different size; a ball or a circle, or anything having irregular somely do it much better if they have the form may be magnified a thousand diameters and yet retain the same form precisely; we photograph the human face as large as a silver dollar, sometimes half as large, sometimes a fiftieth part, yet the precise form is retained; the smallest shot and the largest cannon ball are identical in form, and the faculty of Form in respect to them is thoroughly satisfied, and knows nothing but shape; the fact of Size is the only subject of distinction, but that faculty is never deceived; the picture of a horse that is perfect, may not be more than an inch long, and that may be gradually magnified till it is ten times larger than the horse itself, and the faculty of Form is satisfied with any one of the pictures; all that the faculty of Form desires to see is the horse in each of the pictures, but Size enables us to judge of the difference between them. We see the pictures of men in fashion plates in tailors' windows; if the form is satisfactory it is what we look at, and when we look at a statue of a man that is of heroic size, if the form and proportions are satisfactory we accept it as correct; the faculty of Size appreciates the difference between the statue and the man, while Form takes no account of the difference in size. All mechanics require this faculty, especially the turner of wood, the carpenter, and the blacksmith; he requires the faculty of Form to give the requisite shape to his work, but he must have also the faculty of Size in order to make it of the right magnitude; he must measure the size of the work he is hammering; suppose it be a horse-shoe-nail, or a rivet, one who is experienced in making these will make them of the requisite size and length, and they will vary little indeed, all day. In every form of mechanism, and nearly every form of art, judgment of magnitude, where there is no opportunity for measurement, is requisite. The dressmaker, who has this faculty, will make the

folding or plaits without measurement, and gauge them with an accuracy which will be equal to the criticism of any other person. Without a good development of this faculty, the person must measure every time and thus be hindered.



Fig. 112. C. M. HOVEY. SIZE AND LANGUAGE LARGE.

Experienced cattle buyers will estimate by the size the weight of a hundred oxen in a hundred minutes, and not vary, on an average, five pounds on each, and butchers who cut meat for customers will estimate the weight by the size, to an ounce, though they have a method of giving a half pound more than is called for, and the writer has learned, if he wants two and a half pounds, to ask for only two pounds, and he is then sure to get the requisite amount.

The merit of a caricature artist is in making the form of different features so nearly correct that they will be recognized, yet pervert the size so as to make it funny and absurd; a man whose nose is large will thus be made with a correct form, but exaggerated, so with mouth and chin. A Governor of this State had an enormous chin, and used to have it clean shaved and brooded by an elegant mustache; the caricaturists would exhibit the chin in true form in a portrait intended for him, and by magnifying the large chin it was thereby rendered funny, and always was recognized as his peculiarity.

One who writes and keeps accounts, having this faculty well marked, will maintain the equality of the size of his letters and figures, so that each page of his work will have the appearance of method; some writers will begin a word with well formed letters, and end the word with a tapering, crooked line, violating the faculties both of Form and Size.

Wherever we look upon life's affairs, we have use for the faculty in question, and good judgment, quick perception, and rapidity of working depends so much upon the integrity of this faculty that as we think of it, it seems to be the chief one of the group to which it belongs. Of course it can be trained by use, or left without training, but a practical education trains the faculties quite as much as it gives us information.

27. WEIGHT.

This faculty expresses the idea of ponderability, which is an intrinsic quality of matter; things weigh more or less, according to the amount of matter which they contain. This faculty brings us into harmony with the law of gravitation; both men and animals being adapted to it by means of this faculty, it gives the power of balance or sense of equilibrium. Those in whom it is strong, obey this law in respect to themselves with more ease, accuracy, and grace than others; some walk with a swinging, lounging motion, and throw themselves from side to side, as if it were hard work to regain at each step the equilibrium; the very process of walking consists of projecting the body forward as if falling, and then restoring the equilibrium with the advancing foot; some walk easily as well as gracefully; some horses trot like a fox, lightly, easily, others punch the ground with their sturdy legs, and shake the rider from side to side very uncomfortably. When a horse rapidly turns a corner, he throws the weight of his body inward, and the driver sitting on his back, or on a seat in a vehicle, leans inward to keep from losing his balance; the circus horse in the ring leans inward at an angle of forty-five

degrees, if the ring be small, and he must have a bank of earth to travel against, and the rider, whether it be man or monkey, also leans inward to obey the law of gravity or Weight. Those who can walk the



Fig. 113. LORD RAYLEIGH. WEIGHT LARGE.

President of the British Association for the Advancement of Science. Large head, amplitude of forehead, power to gather and analyze thoughts and to study principles and their combined relation, rather than as an inventor or abstract thinker. Well-balanced temperament.

rope or perform those wonderful feats of balancing, where men build human pyramids, one standing upon the shoulders of another and all keeping balance, show a marvel of activity in this faculty; men who are working on buildings, or seamen going aloft, require this faculty in a great degree of strength and activity, and we fancy that sea-sickness is largely a disturbance of this faculty. The writer has adopted, when at sea in rough weather, the expedient of standing as near the middle of the ship as possible and holding his head still, and then adapting himself to the motion of the ship, by permitting the body to swing, while the brain is kept in one position, and has avoided sea-sickness in that way.

easy dancer, the rapid and easy worker, where the use of blows is required, will be found endowed with this faculty of Weight to apply just force enough to accomplish the work in hand; watch the person who cracks walnuts at his stand on the street corner, he will give a light tap to find that the nut will not slip, and then one blow will crack it just enough; an inexperienced person will strike a light blow and keep increasing in the weight of his blows until perhaps the sixth blow, being slightly mixed with anger, will crash the walnut to flinders, and perhaps damage the thumb at the same time.

Writers having this faculty, will slant their letters uniformly, not put one straight up and another leaning back, and two letters leaning forward and no two alike. Those in whom this faculty is well developed, will hang pictures, or nail up work as a carpenter, that will be plumb, without the necessity for using instruments; the eye, as the saying is, is level and plumb, and it takes the faculties of Form and Weight to know by the eye when things are horizontal, for we form an imaginary plumb line by the faculty of Weight, and then the horizontal is made at right angles with this idea of the vertical, the faculty of Form determines whether it is a right angle; in other words, we recognize a line which claims to be horizontal, we instantly judge the vertical line by the action of weight, and Form tells us whether the line which claims to be horizontal, and the vertical line which we have in the mind, form a right angle; if they do not, we change the position of the horizontal till it forms the right angle in question. This may be done a thousand times a day, and with a readiness that seems to elude or defy analysis, but the analysis is clear as any problem in mathematics.

28. COLOR.

The office of this faculty is to give a perception of primary colors, their shadings and blendings. It is located at the centre of the arch of the eye-brow, and The graceful walker, the graceful and when large, gives upward and forward

arching to it. Color is a quality of ob- tion, and the domain of art and dress, jects rendering them beautiful and distinguishing them from each other, even if they are precisely alike in form, size, and

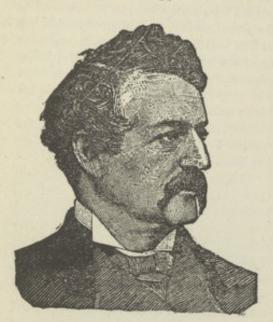


Fig. 114. FRANK S. CHANFRAU, Actor.

Fine expressive face, dignity, force, discrimination, and intelligence mark that Phrenology and Physiognomy. Color large. See also Fig. 111.

form; the oval shape satisfies Form; another egg may be of the same shape but be of greater or less size. Form is satisfied with either, and don't know the difference; Size knows the difference. Suppose we take two eggs of equal size and form, and puncturing the ends exclude the contents, leaving the shell empty; Form and Size are satisfied with the shell and with the egg alike, but Weight only tells the difference. But eggs sometimes are of different colors; the blind man would not see the color, he could feel the form and size and weight, and the color would be the only distinction. Thus we distinguish a thousand things by their color, where the form, size, and weight may be similar. In a well appointed park, one can see at a single stretch of a curving drive, trees whose foliage represent thirty

architecture, furniture, not forgetti g the plumage of the birds, or the ever changing glories of the clouds, color stands weight. Imagine an egg of the usual forth to the mind and memory as "a thing of beauty," and especially as an emblem of distinction in things. Think of the ornamental wood of which furniture is made, the rich, curly mahogany, rosewood, walnut, the beautiful shadings of birch and ash, where Color and Form vie with each other in expressing beauty, and we begin to appreciate the meaning of the term perceptive power. We wonder sometimes if horses, oxen, dogs, see these glories.

> We meet men who seem to be very obtuse in regard to colors and forms, and the less cultivation people have the more they prize very strong colors, great solid patches of fiery red, or smiling yellow, green, or blue; while culture in these faculties gives appreciation of the softer tints and the blended hues, what are called subdued colors. Savages paint their faces with vermilion and black and green; they adorn themselves with ribbons and beads of the most pronounced colors, if they can buy them, and civilization says they are utterly without taste; but the uncivilized and the cultivated nations show a similar distinction in regard to sounds; the music of the uncultured is often rough and unharmonious.

29. ORDER.

Method, system, regularity-when we stop to think how Order is blended with nature, and how much we really depend upon the fixed chain of things, it would seem as if Order were not only "Heaven's first law," but its greatest law. There are two or three aspects in which the faculty of Order is evinced, one is in having things always in particular places, and having a uniform method of doing every thing; another aspect of Order relates to the best rule of doing. Some have the first different shades of green; and when we kind of Order, each thing belonging to think of the beauties represented in flow- them has its fixed place, and there it can ers, when we think of the world of mate- always be found when not in use, but the wial which belongs to the realm of decora- appropriateness of the place where the

108 ORDER.

things are kept is liable to question and wag, bought or borrowed a half-dozen criticism. Men have their tools, their harness and things about the barn and stable in a particular place, but sometimes in most inappropriate places. We knew



Fig. 115. George B. Loring, U. S. Commissioner of Agriculture. ORDER LARGE.

Refinement and force, as well as critical intelligence; power to express himself, is shown in that face and forehead; is genial, harmonious, and bal-

one farmer who always kept his saddle in the kitchen, and his best axe behind the head of his bed, where others would not be likely to get it; nobody doubted where they could be found, but most people doubted the propriety of their location. Some persons in their style of dress pile on incongruous things without regard to order or taste; some do that first which should be done third, and thus they lose time, have things mixed up, finished and unfinished work, raw materials, patterns, and tools, and they have to hunt for the things they want, and get out of patience because what they want seems to be lost. brother lawyer, who was something of a mark his character for life.

pairs resembling the old lawyer's glasses, and when he threw his glasses up on his head, engaged as he was in making his speech and arguing his cause, the wag would slip another pair of glasses upon the table before him, and when he wanted to use glasses, he would pick up and put on that pair, and then tilt it up, until he got six pairs of glasses on his head, and of course all the people in the court-house were convulsed with laughter; and, placing his hand up to his head, he found it covered with spectacles. It is said to have so disturbed his equilibrium that he became confused and lost his cause. A man in whom Order is large, will keep his store, factory, or shop according to rule; will be able to find his tools, even in the dark. The housekeeper who systemizes everything, will have a place for each thing, and not be obliged to grope and hunt and wonder what has become of this or that; a druggist, a librarian, a merchant in a retail store, if he have Order will regulate everything; it will not only look neat and tidy, but systematic; while the sloven, the man without Order, will have things confused and not be able to find what he wants, or will lose time in finding it, and everything gets damaged by want of method. The parent or teacher does the child or pupil a wrong who neglects the training of this important faculty. It is not enough to inveigh against persons for disorder; scolding does not teach method, though it is said that very orderly people are more likely to scold than others. Children should be instructed and trained to put up their playthings, when they get through with them, in a particular place, and an appropriate place should be provided for the child, and when his clothing is laid off at night, the child himself should put the things where they ought to be. Occasionally we find a child who takes it up by nature and insists on having everything of his put in A lawyer in court had the habit of throw- just such a place—it may not be the most ing his spectacles, after reading some- appropriate but it is his Order, and the thing, up on the top of his head. A manifestation of the faculty will signally

Imagine the world without this faculty, Cats, when deprived of half a large litter, tained by the floors, it is out of the reach ference between one and six, and will of burglars, but without order; how can he get what he wants without loss of time and damage of things? But that is illustrated when, in the city, people have to pull up and move, and cart their furniture from one house to another and put it into the rooms, helter-skelter, just as they can, and the orderly family will say, "I don't know when we will ever get our things in place," and they will regulate one room after another till they have got all their household goods replaced, and then they begin to breathe freely, although they are wearied and tired and think moving is a bore; it is more because of the disturbed Order than it is because the work is hard, but it is both, and therefore a double burden.

30. CALCULATION.

The faculty of Calculation or Number, is necessary in the mental constitution;

everything that a man owns thrown in a do not seem to appreciate the difference heap; it is sheltered by his roof, it is en- in number, but if five are taken away and closed by the walls of his house, it is sus- only one is left, she has an idea of a dif-



Fig. 116. B. J. PILLSBURY, Collector of Internal Revenue, Boston.

Calculation, Constructiveness, and Eventuality.

Number is a condition if not a quality of hunt to find that which is lost. Some things. Individuality enables us to dis- negro tribes can count only to five, and tinguish between one thing and another, use no compound terms; they say five but does not count the number of them; one for six, and five two for seven, or it might give us the idea of many, as when make a shift by using both hands for ten, we look at a load of sand, containing parti- both hands and one foot for fifteen, both cles numberless. Thus we measure sand by hands and feet for twenty, and above this the bushel, as we do grain; we count sheep, is "many" or innumerable. The Esquicattle, horses, and buy and sell them by maux Indians have no idea of Number number, as we do eggs by the dozen, but above five, everything else is many. beans, peas, and corn we cease to enumer- When mathematics are examined in the ate, and sell by measure. The faculty of light of Phrenology, it apparently de-Number, or the idea of Number, seems to pends upon the addition of one or more be manifested in some of the lower ani- of the other faculties to assist the organ mals which are usually most intelligent; of Number; if mathematics be the docit is said that if ten men enter a cavern or trine of quantity, Size and Weight must a ruin which birds inhabit, they all fly be brought into use, and in geometry and away from their nests and perch near by; trigonometry, Form and Locality as well if three men go out, they all eagerly fly as Size and Weight must be included. In back. Their idea of number has been ex- the higher branches of mathematics, the hausted on three, and they seem amazed aid of many faculties is demanded, comto find that some men are left, and again mencing with Calculation or Number, and retreat; three more men going out, the prosecuting the subject towards the higher birds rush back again, showing that three branches. The scholar is compelled to is the extent of their idea of Number. use one faculty after another, until we

find the perceptive and reasoning organs all active and under control, which is the true abstract object of education to give the pupil a healthy, active, manageable brain. Those wonderful calculators who have astonished the world, such as Zerah Colburn, are generally not mathematicians, as he was not, though he was given culture in that direction, and it was expected he would astonish the world, but as the higher organs of the intellect, which comprehend the philosophy and relations of subjects were weak, he failed. A mathematical cast of mind requires that a person should follow something in which the exact and mathematical can be made serviceable. We often meet with pointed illustrations of this; a man brought his son to our office for examination; they looked sad, discouraged, and gloomy. When the young man took his seat, the father spoke in a sour kind of way, saying he wished to know what that boy could do to earn his daily bread. After careful examination, we said "Anything, unless it be something in its nature like wood engraving." They cast a quizzical look upon each other, and the father asked why he would not succeed in wood engraving. We replied, "He has so much Order and Calculation he would want to fix a machine or use gauges to space and govern his work, and do it as by machinery." The father informed us that he had then just taken the boy from a wood engraver who had been trying for six months to teach him the business, and complained that the boy wanted to use gauges and rules of measurement, and was not willing to work by the eye. We advised the father to let the boy go at architectural drawing or carpentry, where he would be required to work by mathematical rule, and where he could employ mechanical ingenuity and artistic taste at the same time. The organ is located back of the external angle of the eye, and gives squareness to that part of the head.* Fig. 116.

31. LOCALITY.

This faculty has relation to position, place, and represents a condition of matter. Individuality recognizes matter as a fact, a thing. Form gives its outline,

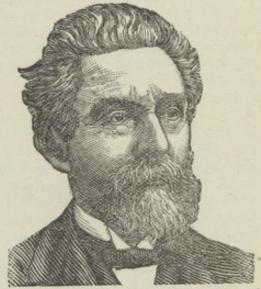


Fig. 117. N. J. COLEMAN, Commissioner of Agriculture. Locality and Individuality large.

Size its dimensions, Color its hues, and the faculty under consideration gives it place,

As no two things can occupy the same place at the same time, each thing must bear, in regard to position, some relation in the way of direction to all other things; it must be above or below, at the right or the left, and the *where*, it is the function of Locality to recognize and remember.

Geography is the natural science of place, and Locality is the basis of it; there are those who will remember relative position, where things or places are in respect to themselves; they can find their way all over the house; they will remember roads and places and directions in a town; they will carry in their memory a sense of where Boston is, with reference to New York, and Albany, and Buffalo, and Philadelphia, and Montreal, and, if requested to do so, will point in the direction of the place suggested, so nearly correct that the line of extension would bisect the town if it were as large as Boston or Philadelphia are represented on the maps.

^{*} From "How to Teach, or Phrenology in the School-room and the Family," by Nelson Sizer. Fowler & Wells Co. publishers.

Certain animals manifest this feeling; the boards are in another room, or they may be carried for miles, a circuitous Size and Form. route, in a bag or barrel, and set free, he rivers on the way.

trees, they would go from any part of the gans. None can be spared. continent to the point where Pittsburg, Pa., is now situated, and to other places where their tribes were located, over the trackless forest; they are distinguished for a large development of the organ of Locality.

If one would know what the influence of Locality is, let him lose his point of compass; let him feel that he is lost and does not know where to go for his home, and he will feel strangely disturbed. Yet there are some people who have so little of Locality that they never seem to know or care which is north, south, east or west; if they only know the road home they follow it until they get there. It is said that on the prairies when a man has lost his reckoning he leaves his horse to take his own course, and that the animal will find the way home. Such men as Captain Cook, Humboldt, Sir John Franklin, Bayard Taylor, Stanley and other travelers and navigators manifest a desire to see the world and to solve the mysteries of all countries; to go somewhere and see something is the strong trait with such men. The world is indebted to them for the explorations which have grown out of the activity of this faculty. Birds that migrate find their way back to the same straight line for the hive when he has loaded himself with honey, and the

it is said that dogs will find their way are blindfolded; they have the memory of home from a strange place; they have place, and recognize the changed locality been taken from France up the Mediter- of the pieces on the board after eacranean and the Black Sea to St. Peters- move. Billiard players mentally draw a burg, and they have been known to come diagram of the direction which the ball is back over land to Paris. Horses find their to be driven in order to produce certain way, and pigs are remarkable for it; one results, and this requires Locality, Weight,

When one thinks seriously of the sense will make a bee line for home, swimming of Locality, it appears of very great importance; the truth is, every faculty of Indians manifest a remarkable talent in the mind is important, just as every tooth this respect; when they had neither roads in a handsome set is important to comnor bridges, and perhaps not even marked plete the beauty and utility of those or-



Fig. 118. THOMAS STERRY HUNT. Vital-Motive temperament; large Language; enormous perceptives and memory; large Eventuality, Comparison and Benevolence; a scientific writer and

32. EVENTUALITY.

This is the historic faculty; it has to do place, and the bee is known to make a with events, hence its name; it takes account of life's affairs. That part of speech which in grammar is called verb, relates straightness of that line of flying is called to those facts and conditions recognized the "bee line." It is known that chess by the faculty of Eventuality, such as "I players will play several games while all came, I saw, I conquered," "I hoped,"

was fought," "The ship was wrecked," or cess, and to the social life of men and na-"The voyage was successfully made." We ask "What happened?" "What was said or done?" "What was attempted or achieved?" History, then, is a succession of transactions, doings, changes, and achievements. The memory of events gives a man the history of the past, and all its experiences stand before him as a guide, as an example, or as warning; when by illness people lose a year or five years, or when they are not informed as to occurrences, they come to themselves and find a great blank. A sea captain was on a cruise which lasted three years; he had ordered the London Times to be kept on file for him, and when his long voyage was ended, he shut himself up many hours in the day, beginning where he left off with the history of affairs, and going through the columns of the Times during the entire period of his absence, and then he said he was ready to go out among men and not seem to himself and to them to be a fool; he had really lost three years of England's and the world's history. True, he had his log-book and the chances and changes and labors and dangers of the sea as a narrow thread of history, but what the world had been doing, what history had been wrought among men, was blank to him.

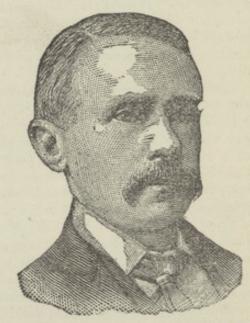
Children like to hear stories; the narrative of Joseph has made millions of children deeply interested, and for life, in that name and history, and its repetition will have the same effect during all the generations of the future. The story of the Prodigal Son, the story of Ruth, how it crystallizes into the thought and memory of every generation that reads it!

The historian and the story writer need Eventuality as the leading element in is imaginative, all that is pious, all that vated; and most people complain of a

"I feared," "I suffered," "The battle belongs to heroism, art, to business suctions comes to be a part of history, hence the historian should be endowed with all these qualities in order to express himself with success.

33. TIME.

Duration is an institute of nature, periodicity is a great law of phenomena, the revolution of the planets requires time;



I ig. 119. W. B. DAWKINS, General Agent of the British Association. TIME AND ORDER LARGE.

A sharp thinker, a man of force, a great deal of push, and at the same time reticent, compact in his statements, and influential in his character.

the order of nature embraces times and seasons, so that we know when planets will come into such relations with each other as produce eclipses, and an astronomer would feel ashamed to make a mistake of three minutes in computing an eclipse which would take place one year or twenty years hence.

The faculty of Order, which combines their mental nature; the memory of inci- with that of Time in recognizing the fitdents and the desire and power to tell ness of time and effort, and the faculty of them well, is the foundation, the inspira- Number or Calculation, acting with that tion of the history. Of course all the per- of Time, constitute the trio which relates ceptive organs that have to do with time, to dates, method and periodicity. The place, quality, condition, and circum- memory of dates is a most important matstances; all that is sympathetical, all that ter, and it ought to be and can be culti-

want of memory in this respect. who has the faculty of Time, finds chroments depend on time. * nology a pleasure to him; it is not difficult to carry the time of the day in his mind; he remembers dates, what month, what day of the month something happened, and if one having Time well developed has the care of a sick friend, and must rise every hour to give medicine, he can sleep soundly for fifty-five minutes and will wake hour by hour all night within three or four minutes of the proper time.

Some children are deficient in this faculty. The mother tells them they may go out and stay half an hour, and they will stay three or four half hours, and will come in with an honest sense of having kept their promise. Such persons are generally behind the time, they will promise to be ready in ten minutes, and at the end of thirty are not quite ready. Those in whom it is strong, never lose a boat or train, or a meal, or any other appointment, if by any possibility they can command their circumstances; they would commence a lecture or sermon at the tick of the clock, whether the people are all there or not. Janitors used to tell us when we traveled, that half-past seven in their town meant eight o'clock; we responded that half-past seven means thirty minutes past seven, sharp; they would tell us, "No audience will get here before eight," but when the hour arrived, we commenced if we had but six, and it was amusing to see the people come stringing in and hurry to a seat, as if ashamed; the next night the house would be pretty well filled; the third night filled and settled, and then perhaps for nine nights more the last man was ready when the lecturer stepped on the platform one minute before the time.

Time is employed in music, in dancing, in jumping the rope; some people count the steps, employing number and time to make them uniform : the writer has walk-

When ed with a friend in a city, crossing the we hear a man say that on the sixth of streets for three long miles, never break-October, 1834, or 1850, something oc- ing step, taking shorter steps when on curred, and the fact that he remembers the inside of a curve, and longer when on the date, helps to nail it as a fact. One the outside of a curve. Military move-

34. TUNE.

To those who are fond of music, and have the talent to perform, it seems strange when told that there are some who can not recognize a musical sound from any other noise; one who has musi-



Fig 120. BEN. COTTON, Greatest Minstrel in the West,

Observe the fullness of the side of the forehead, upward and backward from the eye, near the hair, the location of Tune. He has strong vitality, decided force, but not a very lofty head; he lives in the musical and in the material.

cal sense, will detect the peculiar quality of all other noises. Let one make as many noises with the hands as he can, if he slaps them together, or smites with the fist in the palm of the other hand, if he rubs the hands together, he gets different sounds; persons in walking make different sounds with the feet, and those who have a keen ear for sounds will know each one of their acquaintances when approaching from behind, and call them by name.

We knew a livery stable keeper in the country, who would sit in the shadow of

^{* &}quot;How to Teach, or Phrenology in the School-room and in the Family."

ons coming from every part of the town, zation develop the harmony of parts, and and know every one by the travel of the we fancy that the slaves of the Southern horse and rattle of the wagon. light horse had been sent out with a heavy barouche, and he heard the approach of the team and was puzzled, and said, "That is Joe's footstep, but what in the tal activity. Dr. Miller, of Columbia world is the rattle of that barouche behind him; they are never put together?" and he inquired in a puzzled way of one of the attendants, to know what vehicle that horse went out in, and the explanation was made that a gentleman wanted to drive a short distance and there was no hitched to, and he said, "That settles it, how they were together."

A man who is superintending a room in a factory, will hear any peculiarity of noise and know whether it is right or wrong, in respect to the machinery, and if some noise is made a little different, will follow the sound of it till he finds it, though the room is crazy with a thousand sounds, but they are a . legitimate except that one.

Elocutionists require the organ of Tune well developed; we have known one or two who attempted to study and teach elocution, who are unable to understand or appreciate music, and there was a drawling monotony and grating harshness to the voice, a lack of that flowing tone which a good speaker requires, and which is especially essential in a teacher of elocution in general oratory or on the stage.

There are three kinds of quality in sounds which the musician requires to appreciate, and the organ or faculty of Tune has three phases. One recognizes mere noise, as we have said, and judges of its quality without regard to its musical tone; the next grade above recognizes melody; the third recognizes musical harmony; many persons will sing one part, if we may say it, they are good part. Savages, we believe, have only one left his first school and entered another,

the evening and hear his horses and wag- part and all sing that; culture and civili-One States learn their idea of harmony from the whites; they have, however, fine musical appreciation, and that seems to be one of the highest phases of their men-College, Washington, D. C., and, by the way, physician to President Harrison in his last illness, told the writer that a boy, a patient of his, had his skull fractured by a kick from a horse, near the external angle of the eye, where the organ of Tune is located. Soon after the injury he comother vehicle that the horse could be menced whistling, though not much disposed to be musical before, and continued I knew it was that carriage, and that it it through his waking hours, and would was that horse, but I could not understand even hum and whistle in his sleep. This alarmed his mother, as she thought him deranged, and as the tendency continued and even increased, Dr. Miller made a more careful examination of the wound, and found a splinter of bone pressing into the brain three-quarters of an inch; this he removed, the wound gradually healed, and the boy whistled less and less, until fully restored, when he ceased to manifest the musical tendency altogether. The injury of the skull was at the region where we locate the organ of Tune, and the splinter of bone which pierced that organ produced inflammation and an unnatural activity of that faculty, and, said Dr. Miller, "That fact convinced me that I had verified one organ, at least, and thereby proved that Phrenology is true."

35. LANGUAGE.

This organ gives the power of expressing thoughts and feelings by means of speech; to talk is natural, but the special style of speech is artificial and conventional. Dr. Gall discovered the organ of Language when he was but a school boy; he noticed that those who had full and prominent eyes excelled in verbal memory; they could learn lessons and recite them with fluency, while others, including soloists, but the duet or quartette con- himself, were not able to commit or refuses them and they can not carry their member words as successfully. When he he was able to point out each one who was his superior in verbal memory. This, of course, was the observation of a child; he afterwards learned why the eye was pressed outward, namely, by a convolution of brain lying directly over the orbit of the eye, and when large, pressing the roof of the eye socket downward, thus crowding the eye outward, and the under eye-lid being prominent below it.



Fig. 121. J. E. HILGARD, Member of the Scientific Association.

Large Language, fine talker, excellent observation and memory, the lower and middle section of the forehead being full; decided force of character; persistent, individual, and yet social and cordial.

Mr. Combe mentioned a man in Scotland who lost the power of calling things by their right names; if he wanted bread, he would ask for something quite different, and this disturbance continued for some years. Finally the person died of some disease of the digestive system, which had no special relation to the brain, and the physicians held a post mortem examination, and on examining the brain, they found at the location of the organ of Language, as indicated by Gall, a lesion in the brain as large as a filbert. The doctors had said, however, "If the phrena diseased condition of the brain where they locate the organ of Language," and when they found it, they looked at each

other and said, "Gentlemen, this subject deserves serious consideration," (and to their credit we may say that they have been presumed to have considered it seriously, though they never reported the result of their consideration). To-day, however, physiologists generally recognize the centre for Language, and its disturbance or disease is the formation of the disorders of the faculty of speech classified under the term of Aphasia.

Scientific men ought not to suppress truth, even though it may seem to militate against some of their previous ideas, but human nature has imperfections; physicians are human, therefore some of them may manifest imperfections.

Public speakers, or even common talkers, show a style of Language in accordance with the development of their other organs or faculties. A man with large Language, and having large Individuality, will have a mastery of the words which pertain to definiteness and distinction; if all the perceptives are large, he will tell of the existence of things and then of their qualities, their form, size, weight, color, order; in other words, he will use adjectives with readiness. Individuality relates to the "Thingness of Things," the noun element the substantive, while all the other elements have relation to qualities of subjects or objects, which are expressed in grammar by the term "adjective." If Locality be large, the place will be specified; if Eventuality be large, the story, the narrative, the history, and the speaker will talk of the build of the man or horse or house, of the magnitude, of color, of arrangement, and if the subject have number, that will be introduced and the time will be stated, if time forms a part of it. The talk of some men is mainly made up of adjectives, they may be beautiful but sometimes they are like soap bubbles, more magnitude than substance.

doctors had said, however, "If the phrenologists are correct, there should be found a diseased condition of the brain where they locate the organ of Language," and when they found it, they looked at each had been made, was called out by the sencourse of that speech, he made use of this simple gatherings of the perceptives beautiful string of adjectives, "Americans, you have a country vast in extent, embracing all the varieties of the most salubrious climates; the exuberance of your population is daily devastating the gloomy wilderness of its rude attire, and splendid cities rise to cheer the dreary desert"; if we take the adjectives out of this it will read, "Americans, you have a great country; your people are cutting down the trees and building houses"; where Causality and Comparison crown the perceptive faculties, the oratory is massive, full of meaning, as when Webster in the Senate, talking to men who remembered history, said, "I will make no eulogium for Massachusetts; she needs none; the world knows her history by heart; there is Boston and Bunker Hill; there is Concord and Lexington; the bones of her sons are bleaching on every battle field between Boston and Georgia, and there they will remain forever." One style of speech tickles the ear, excites the fancy; the other makes a man's soul thrill with its majesty and might.

If the selfish feelings predominate, Language works in that channel; if the religious and moral, Language is invited to give voice to those sentiments; if the selfish sentiments prevail, persons talk of themselves, and laud their own graces and virtues; if the social elements are strong, people talk of love, children or of home, but fulness and freedom of utterance, in whatever direction, whether sympathetic or scientific, historical or practical, Language is the instrument of the expression.

THE REASONING ORGANS.

In the brain, above the range of the perceptives, to which attention has just been called, lie the organs of Reflection, Comparison, and Causality.

These organs, in their very nature, show the prevision of the Creator in the produces the second proposition arising distribution of the human faculties. Sit- in the mind when contemplating instances uated above, yet contiguous to those or- of causation in nature." This notion of and constituents of external objects, it lation to the exercise of Causality. The

timent of Ireland and her Orators; in the is their special office to make use of the through processes that are essentially interior, and consist for the most part in discerning the relations subsisting between data by comparing, combining, and co-ordinating them, and deducing certain results or conclusions.

The practical philosophy of human life, wide and varied as it is, and withal simple because of common acceptation, is the outcome of reason. It is through the exercise of reason that man owes his great advancement in civilization. One conclusion but suggests new conceptions, and out of the consideration of these conceptions new theories and principles are evolved, and ultimately solid judgments are reached that contribute new truth to the world's store of wisdom.

Man, to be sure, in scientific researches, may exercise his imagination, his Spirituality, Ideality, Sublimity; he may derive impressions through the moral sentiments, but the concrete, substantial work that leads to results that are expressed in terms of positive logic, is performed by the reasoning faculties, based, as we have said, upon the data furnished by the observing organs.

36. CAUSALITY.

This organ is situated by the side of Comparison and over Locality; when large, it gives prominence to the upper portion of the forehead. Fig. 122. If the perceptives are small it seems to add an overhanging appearance.

It is the office of this faculty to take cognizance of the relations among phenomena that constitute cause and effect. As we have said, the perceptive faculties recognize the existence and qualities of objects. Eventuality notes the changes which they present, and in addition to the sequences perceived by Eventuality, "a notion of efficiency in the antecedents gans that simply recognize the qualities power or efficiency, etc., has a special refaculty, therefore, goes back of phenom- of a creative influence, a power that must observes the dependence of one class upon an other. In looking at the actions of men it inquires Why? and considers the motives from which men act.



Fig. 122. EDWIN MAXWELL. CAUSALITY LARGE. A temperament favorable to thought and endurance, and especially to the higher reason and moral senti-

ments; inclines to live in advance of his surroundings and to work for the future. Late candidate for Governor of West Virginia,

He in whom it is large sees relations between things that are incomprehensible to those who are not well endowed with it. Great discoverers in science are largely endowed with it. It was the activity of Causality that made Sir Isaac Newton the discoverer of the law of gravitation; such was the case with Kepler and Galileo in their development of the laws governing the movements of the heavenly bodies. They who deduce general principles and systems in the analysis of natural or physical phenomena are well endowed with Cuvier, Spurzheim, Hum-Causality. boldt, show it large.

Mr. Combe and other writers think that this faculty impresses the mind with the idea of the existence of a God, through a tracing of causes or investigation going from one to another until we reach a point where nothing is left but the idea

ena, and inquires into their source and have been at the beginning. This faculty prompts us on all occasions to ask, "Why is this so, and what is its object ?" * It gives ability to look deeply into subjects, and to appreciate the logical sequences of arguments, hence it is large in persons who indicate genius in metaphysics, political economy, and all sciences of a profound character. Such men as Kant, Bacon, Lamarck, Herbert Spencer, are thus distinguished.

When prominent, and the perceptive faculties are moderate, and Comparison is not equally influential, it tends to speculative thinking. Men so constituted are given to spinning improbable theories; their notions are too abstract for ordinary minds, and they are looked upon as dull and heavy weights in society. On the other hand, when Causality is deficient, the individual is superficial and incapable of taking comprehensive views of subjects: of forming judgments that will apply to the affiars of life successfully.

In association with Mirthfulness, large Causality impresses the humorous allusions and bon mots of a person with a character much higher than the fun and grotesquerie of the punster and circum clown. The playful remarks of a Chcate or Evarts have a significance that lies behind the mirthful surface, and is appreciated by the thoughtful; besides the wit of the thinker is definite, clear, and sharp because of its logical power.

Some of the lower animals appear to show this faculty, as they have the capacity of adapting means to desired ends that can scarely be referred to mere unreasoning instinct. Beavers, for instance, adapt the structure of their dam to the pressure of the water; ants exhibit remarkable intelligence in bridging obstructions in the way of their movements. The faculty, however, appears to be limited in the lower animals; the horse, for instance, has been known to starve to death while tied by a rope to a tree. A little of the originative power of reason would

^{*&}quot;System of Phrenology"-George Combe.

and so setting himself at liberty. A dog or a wolf would have bitten the rope to pieces, but they are "gnawing" animals. The horse is not, although to him a high degree of sagacity is attributed. We have of his own faculties, compare impressions seen trained horses tie and untie a rope at obtained, and arrive at general truths. By the command of their trainer, and search for and find articles that had been hidden in the straw. The reasoning of animals is tain result he may apply the cause and chiefly of the associative order; it employs Comparison mainly when it rises above impressions retained by the perceptive organs, and has relation in nearly all cases to the physical wants or self-pro-

Man may reason associatively also, but, as Prof. Ferrier says, "We have the power of concentrating our attention on one idea or class of ideas and their immediate associates, to the exclusion of all others, a power differently developed in different individuals." * This concentration in man may relate entirely to ideas purely intellectual, whereas in the lower animals persistence of attention or purpose is due to the influence for the time of an instinct.

the lower animals, says: "The animals require little intellect, for they are adapted to the external world, and their instincts are unerring guides to conduct. But man without the reflective intellect would not be adapted to all parts of the world in which he must live. He is not even able to get his food unaided by reason. He can not defend himself against the wild beasts unless he can command a greater physical force than that furnished him by nature. He can not live in all climates in a state of nature. In the North he must protect himself against the cold; in the South against the heat. He can not follow his instincts, for they conflict and prompt to opposite actions.

"Man has been endowed with a higher degree of the perceptive intellect. By means of these faculties he is able to observe the objects about him, can know

have suggested the gnawing of the rope their relations to each other, and to himself. In memory he can keep his knowledge for future use. He has been endowed with the reflective intellect, by means of which he can look in upon the operation these he comprehends the relation of cause to effect. Then if he desires a cercreate what he desires. By the co-operation of all his individual faculties he is able to view external nature as it is, and not only this but he is able to know himself as he is. Through intelligence man is able to know the properties of all things, and their relation to one another, their effect upon one another. Furthermore, he is able to apply these relations and forces in such a way as to produce any result which to him seems desirable. By his knowledge and the manipulations of the forces inherent in thought he is allpowerful almost in his sphere of action."*

They who have relations to others as teachers and guides need to possess Causality in a good degree, for they have constant reason to exercise it in the explain-A recent writer in comparing man with ing of causes and reasons. The natural leader is he who lives much in advance of those who surround him, and it is his ability to reason that gives him him his forward position; that can take the common facts of every-day life and mold them into new forms and derive new ideas that will command the applause of the world. Such persons live in a mental sphere that is above the common level; they illustrate the principle of the growth of the immortal element of mind, and so make human nature ever an object of reverence. It is the man of Causality who appreciates the operations of the higher laws in nature and in moral life; it is he who grasps clearly the idea of the line of causation that extends from the natural to the supernatural. The infinite number and variety of the operations going on in the universe are but a constant source of pleasure to him; his spirit swells while

^{* &}quot;Functions of the Brain."

^{*&}quot; Science in Education," by U. J. Hoffman.

minds with the manna of spiritual growth.

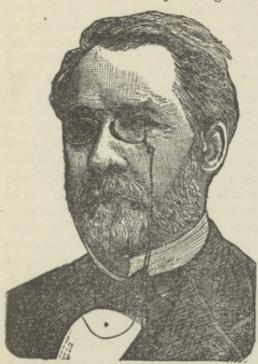


Fig. 123. Louis Pastfur, M. D. Comparison Large. Great scientist in the realm of medical discovery, especially in the realm of disease germs, notably In sheep and other animals. France awarded him prominent honor for his discovery.

37. COMPARISON.

The name of this organ suggests its function; it perceives resemblances and differences. The other faculties compare objects of the same class, as the ideas which they peculiarly and independently form. The organ of Color, for instance, takes cognizance of the differences and resemblances of hues; Tune, of musical sounds, and Form, of shapes, but it is the office of this organ to compare things which in their individual attributes are entirely unlike. Spurzheim says, "The great law of this faculty seems to be to form abstract ideas, generalizations, and

he contemplates them, and the inspira- clothes in the dirt; feels the relations betions derived enable him to feed lower tween the inferior and superior feelings, and gives preference to the latter. It presupposes, however, the activity of the other faculties, and can not act upon them if they are inactive."

> Comparison frequently discovers unexpected resemblances among other things, and people who have it in a very active condition are constantly surprising those in whom it is dull by their novel illustrations. It is the source of the ability some writers and speakers possess of using frequently metaphors and analogies.

> The situation of Comparison is in the middle region of the forehead, in the upper part directly above Eventuality. See Fig. 123. When it is large it gives a rather prominent and wedge-like appearance to that part of the head. It exercises a most important influence upon the mind in the way of analytical capability : and one who has it largely developed is quick in discovering and understanding differences, enigmatical assertions and improper or inaccurate allusions; hence, it is essential to critical acumen.

In all the sciences where nice distinctions are necessary it comes into play. Business men who are well endowed with it are quick in practical judgment, and without it their judgment is rather slow, and they are not fit for the places where ready decision is necessary. In speakers who are able to fix the attention of large audiences, this organ is large. It enables them to introduce many illustrations of the point that they would urge, and to present it in different lights, and so cover considerable ground. One may have large Language, but if the faculty of Comparison is small in his head, he will weary the company by repetitions and meaningless phrases. Lawyers as a class, who are powerful in jury trials, possess large Comharmony among the operations of the parison. Daniel Webster, Rufus Choate, other faculties. . . . The laws of O'Connell, and President Lincoln were so music are particular in tune, compares endowed. Poets and literary writers retunes; yet Comparison compares music quire it. It aids Mirthfulness by suggestaccording to the situation where it is exe- ing similes, analogies, metaphors, etc., that cuted, it blames dance music in a church, point to the humorous or witty side of a and it is opposed to working with fine subject. Mrs. Barbauld's beautiful lines

illustrate large Comparison and Ideality:

"How blest the righteous when he dies!

When sinks the weary soul to rest!

How mildly beam the closing eyes!

How gently heaves the expiring breast!

"So fades a summer cloud away;
So sinks the gale when storms are o'er;
So gently shuts the eye of day;
So dies a wave along the shore."

While Comparison contributes to reasoning, it is not strictly so, per se. method is different from that of Causality, which is frequently deductive. It endeavors to prove that one thing is of such and such nature, because it resembles another that is so and so; and because the majority of people have it fairly developed, they are prone to convert an illustration into an argument. One with large Causality and Comparison when discussing a subject cites this or that matter through Comparison as simply in illustration of the point he would make clear, while his conclusions are drawn from his premises, and not from Comparison.

Men distinguished for scientific ability show decided projection in the middle region of the forehead. Franklin, Roscoe, Agassiz, the late Professor John W. Draper, and B. W. Silliman had it very large. Franklin's conversation and writing were always replete with illustrations and similes.

Dr. Vimont shows very clearly a special office of Comparison in the following illustration: When a piece of ice is placed in a vessel over the fire, Form, Size, and Color take cognizance of its appearance, and when it melts the change is perceived by Eventuality. All these processes may take place without any idea of sequence or relation between the state of the now liquid substance and the same state in other substances, such as lead, mercury or milk. What, then, is the faculty which recognizes the state of one part relatively to another so as to make its qualities expressed by adjectives in Language? Doubtless, Comparison. Dr. Vimont was led through his elaborate studies of the lower animals to conclude that some of

them, as the dog, elephant, orang-outang, and bear possess the faculty to a marked degree. *

C. HUMAN NATURE.

On the median line at the summit of the forehead directly over Comparison, is an organ which has been attributed by observers since Spurzheim to the faculty of judging human character, receiving



Fig 124. Major A. E. Burke, Director-General of the Exposition at New Orleans.

An active, practical, critical intellect, vith large Human Nature, Combativeness and Destructiveness, ambition, and push. That nose means success or crushing defeat.

impressions, motives, manners, and conversation, and so on. Fig. 124. Man has an intuitive sense of what others are. He receives impressions that come to him instantly without the intervention of other agencies, although they may seem to relate to Comparison and Causality or Benevolence. These impressions may agree with the inferences of perception and the deductions of reflection, but they are not found of easy explanation, and they so quickly flash upon the mind that they can not be formed by the naturally deliberate process of reasoning; therefore they are distinguished from the intellect.

^{* &}quot;Traite de Phrenologie Humaine et Compare."—J. Vimont, M. D.

Some people are remarkable for the acworld; yet they have but a moderate development of the intellect, and when asked what are the motives that govern their general conduct, they reply that they usually follow the bent of their impressions; and experience has proven that they will be most successful when so doing, in spite of their not being able to give a logical account for such conduct. In these persons we find all the region between Benevolence and Comparison quite prominent, while in people who depend upon their intellect for guidance in affairs that region is but moderate in manifestation. Women generally have the organ more conspicuously developed than men, and their character for forming judgments is in accordance with the development.

This faculty, we think, has much to do with the formation of the alliances and intimacies of life, for the reason that it helps people to discern those who are likely to be in harmony with them in the exchange of conversation and sympathies. We meet with people who are exceedingly unlike ourselves in general expression of character, yet somehow or other we feel drawn towards them, and even against the advice of others will become on intimate terms with them and suffer no injury from the association. As the author of "How to Teach" says: "The faculty of Human Nature may enable a man to find in others, not perfection, but what is needed to supplement himself; to make by association a sort of lemonade, if it can be mentioned that one is sugar and the other lemon juice. The man who is compelled to travel in the prosecution of business, having large Human Nature, he can read those he meets well, and be enabled to adapt his conduct and language to them : whether he can treat one with respect and distant courtesy, or whether it is best to walk up and offer his hand familiarly. He can be all things to all men, grave or

One who is deficient in this organ has curacy of their judgment, the success of not readiness of adaptation to others, altheir operations in business and the social though he may be kind and gentle, yet he will not exhibit the promptness in understanding others that helps to put one on good terms with another in the start. Persons who are placed in those relations where they have to deal with a great many people—the manager of a hotel, a conductor on a railway, a military officer, lawyer, teacher, minister, need a liberal endowment of this faculty to get along comfortably with all. It is an essential in the skillful detective; Allan Pinkerton had it remarkably large, as well as very active perceptive organs, and of him a distinguished phrenologist said, when he came as an entire stranger and offered himself for examination, that he "could smell a rogue as far as one could be seen."

"No element of our nature," says Mr. Fowler, "should be so assiduously improved, because none confers a capability more useful or delightful. To effect its culture, note all that every one you meet says and does. Look through conduct to motives, ferret out disposition and character wherever you go, form your judgment of men, and then inquire of yourself from what in them you deduced your conclusions. Little things will often put you on the track of the entire character. and tell the hidden story effectually because done unconsciously, where more important acts are guarded."

D. AGREEABLENESS—SUAVITY.

This organ, like Human Nature, is a comparatively recent addition to the list, but it has a large array of evidence for its location and function. It is situated just above Causality and outward from Human Nature. Fig. 125. Sometimes it has been called Suavity, because its function is to give blandness to manners, the disposition to make one's self agreeable, to ingratiete one's self into the favor and good will of others by adopting a pleasant and conciliatory mode of address.

Some observers have claimed that the gay, deferential or familiar, free and easy, manifestation of this organ was the result shanging his manner to suit the occasion. of a combination of other organs, like Approbativeness, Secretiveness, Benevolence and Veneration, but a little thought upon the subject will convince most of our readers, we think, that the peculiar office of Agreeableness proceeds from an original

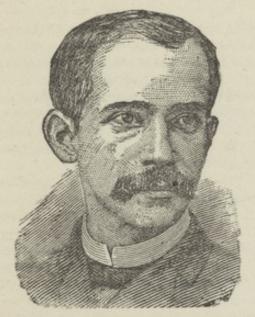


Fig. 125. Alfred Springer, Secretary of the Scientific Association, Philadelphia.

His large Language and Agreeableness qualify him to put his thoughts into agreeable words; has large Imitation, Ideality, and Constructiveness, with strong Comparison and Causality. Such men make their way easily by pleasantly adapting themselves to all.

power of the mind. We meet with persons who possess the organs we have mentioned in a good degree, and also a fair intellect, and yet are lacking in courtesy, or the ability to make themselves acceptable to others; they do not feel at ease in mixed company, although they have kindness, deference, and are much disposed to please. Then, again, some people who have no great amount of moral sentiment, are small in Approbativeness and Caution, yet are able to insinuate themselves into the good opinion of others, and pass off for good fellows. The gallants and Beau Brummels of society as a class are those who are not at all remarkable for Benevolence or Conscientiousness, and far from profound intellectuality.

It is this faculty that supplies one with grace and urbanity. Some persons have a great deal more of it than others. It is

shown in the manner where no words are spoken. They who have the power to take with equanimity the rude assaults and unpleasantness of life; who never bristle up when jostled by others, or when their "pet corn" is crowded by an encroaching shoe; they who are prompt in accepting an apology, and as prompt in offering one, where they are less to blame than another, have the organ large. We can easily credit Sir Philip Sidney and Sir Walter Raleigh with a good share of this faculty, as their well-known courtesy could not have all proceeded from Benevolence or the mere appreciation of expediency.

This faculty is especially noticeable in children who have it large, as it impresses their character with very charming acts of politeness and grace, so that we are disposed to say that they are "born" ladies or gentlemen; while other children connected with families of position and wealth, in spite of all their opportunites for culture, are pert, blundering, and coarse. So important is this faculty as an aid to harmony in society, that parents and teachers can scarcely give it too much attention. It is one of those faculties, too, that readily respond to cultivation. We have known persons, who, when we first became acquainted with them were boorish, rough, and disagreeable in their conversation and manners, but through patient study and effort, became in the course of years greatly changed, and passed in society as decidedly agreeable associates. Nothing helps so much to lubricate the wheels of social intercourse as a smooth, pliable, kindly manner.

Manner is even more important than matter in our dealings with the world. We can say severe, rebuking things to our acquaintances, if our language is kind, soft, and mellow. "Men will often swallow bitter doses of truth if expressed in a sweet, acceptable manner," * and the effect of moral teaching generally when courteously given, is excellent in its influence upon the whole nature of the recipient.

^{* &}quot;Self Culture."

HOW FACULTIES COMBINE

AND GIVE PECULIAR SHADES OF CHARACTER.

ulties, and the influence of given groups. Phrenology is the only feasible explanaation of these phenomena. When we look at character as a whole, the sweep and average of that character may indicate a man who is gentle, patient, quiet, and loving. We may again see him under extraordinary conditions when he will be domineering.

Sometimes we see men who manifest a pious sympathy and a devout spirit. Perhaps before the week is out, we see them tearing about in anger, talking loudly, and perhaps profanely; and the contrast from their ordinary current of life is a mystery and a marvel.

As eight musical notes contain, by their repetitions and combinations, the whole realm of music; as twenty-six letters in the English alphabet by their combinations make its whole literature, so fortytwo faculties of the human mind, already discovered and defined, make and maintain all the variety of character, talent, propensity, and peculiarity which is seen in the different persons whom we meet.

Among a hundred men there may be an equal amount of mental vigor, but it is diversified by the different degrees of strength in the groups of faculties, and by the circumstances which call out these different groups; thus we find the basis of all the variety which exists in human life.

It is said that no two men are alike. Phrenology detected difference in the dispositions of the Siamese twins, whose experience of life had been, in all respects, more alike probably than that of any other two human beings who have ever

In mental character much depends upon velopment, which gave to each his own the combined activity of the different fac- individuality; and thus, although men may resemble each other, and in many respects their life may seem to flow in the same channel, yet circumstances will call up peculiar combinations of faculty in each, which will lead them to present traits different from those of any other human being.

Persons sometimes speak to our shortraspy, rough, insolent, quarrelsome, and hand reporters, who take descriptions of character from our dictation and write them out, and say, "I suppose you get used to the threadbare story of mental development and find it very easy to report it." Such interrogations never fail to receive the answer, that all the vast variety of characteristics, and peculiarities, and shadings of character, which the reporter has to take and write out in a month or a year, are simply a marvel. We have heard a reporter who had worked three years steadily taking these dictations, say, "That he never had taken a character that did not in some marked peculiarity differ from every other that he had taken."

When mind is studied as a whole and in detail, it is found that there are different groups of faculty; these are spoken of and considered under several heads: First, the Social; second, the Selfish Propensities; third, the Selfish or Aspiring Sentiments; fourth, the Moral; fifth, the Semi-Intellectual Sentiments, or Æsthetical and Mechanical; sixth, the Intellectual, including Perception and reason. If these different groups of faculties could be equally developed, could possess an equal degree of strength and activity, the character would be harmonious; but in a thousand heads we may not find more than one, or not even one, in respect to lived. While they had a common circu- which we can not very readily distinlation, they had differences of mental de- guish a difference in the development of

whole, and find it amply developed, all its part of human nature, all the other groups faculties in equal degree, and decidedly of faculties cluster around and sustain stronger than the other groups, the charthis. Then courage backs heroism, then acter will of necessity be of a social type; ambition and the desire for fame are sancthat part of the nature will lead, and tified, then social affection becomes saintpersons each one of whom is less strongly human conception. marked; the strong man draws the co-

clusters around these selfish forces, and gives the basis for that fraternity which exists among soldiers!

the Selfish Sentiments, that has to do with ambition, aspiration, and fame will draw around it the force of character, also the policy, prudence, and tact; will arouse the group to which belong skill and artistic taste and mechanical talent; and the intellectual forces will also be called into out the behests of ambition.

edge and intelligence, for distinction in business world. the world of letters, and to acquire the means for the culture desired.

these groups as compared with each other. moral and religious qualities predomi-If we consider the social group as a nate, which are the noblest and highest everything else will be subsidiary; it will ly, and intelligence and philosophy are be like one leading mind in a party of consecrated to the cause of the highest

Thus the general framework of characoperation of others; he becomes as it ter can be viewed, by considering the were the hub of the wheel, all the rest controlling groups which are constituted acting subordinately to his will and wish. in the nature of human development; Another man is amply developed in the and if we look out upon general society animal or selfish group; that class of fac- without stopping to be critical or specific, ulties dominate in him over the intellect, it will be seen in a company of a dozen the moral sentiment, the pride and ambi- people, that one is genial, loving, friendtion, the social and æsthetical qualities, ly; he shakes hands heartily, and seems and all these will be likely to second the so glad to see people; he lives through purposes and endeavors of that strong sel- the social elements, and to him love and fish nature. In that group the faculties friendship seem the centre of life, and he that make war are conspicuous; and how is known far and wide for his social force, these warlike faculties subordinate the and indeed he is known for nothing else finest intellect! how they arouse the especially. In that company we will see pride, the martial spirit, the sense of glory another whose talk is money, business, in that direction; how the social nature achievement, overcoming, meeting and mastering difficulties; and if one is wanted for such a vocation or service, he gets a unanimous vote. Another in the In another organization the group of same group may have a serene respect for his own dignity, he is ambitious for distinction, is known to crave and to be proud of high associations. Another is its artist, its ingenious mechanist, its man for comprehending and conducting combinations that require skill and tact. Another is the fact-gatherer; another is the requisition to sustain, plan for, and carry reasoner in respect to facts gathered; another still is the monitor and moral guide If the groups of Intellectual faculties and director, the one who presides over be most active, the person craves knowl- the ethics and the piety that belong to edge of books, education, and informa- life and society; so nature, stamping diftion; and all the qualities that give force ferent men with predominant forces, acand ambition, that give taste and skill, cording to the different groups of organs power to make money, will be called into and faculties, will thus assign them to apuse to second the purposes of intellect, propriate lines of duty, usefulness, reand to lend a worthy hunger for knowl- sponsibility and service in the social and

If the reader will study the engraving, Fig. 65, page 54, he will learn the location And lastly, of the groups, when the of the groups; and Fig. 68, will enable

knowledge will enable him to recognize in the head he meets what group of faculties predominates, and thus may he read character at a glance and know what respect and confidence each deserves, and how to move safely and successfully among strangers.

HOW THE SOCIAL FACULTIES COMBINE.

Having spoken of the influence of the different groups of faculties in leading off and exerting influence, and laying the foundation of success, in different persons, we come now to consider how the different faculties in each of the groups may give shading and peculiarity to the character; and we hope to make the matter so plain that good observers will be able to judge by the motions, attitudes, and language of nearly every person, which of the faculties in any group is most strongly developed.

It will not be a difficult thing for a person, who knows what faculties belong to a special group, to lead the conversation in the direction in which faculties in that group will be interested. In some characters the faculty of Friendship is strongest. That relates us fraternally to persons of either sex or any age. In the lower animals strong friendship is sometimes established between a horse and a cat; between a dog and a horse; between a cow and a sheep; transcending the ordinary affection existing between members of the same species of animals. There are a few classes of animals that do not have gregarious or friendly, grouping instinct. Cattle, horses, sheep, and birds of different kinds go in droves and flocks, and defend each other and make common cause against the common enemy. There are and in the main live apart from their fel- ladies and gentlemen who attend school. lows.

resents the head of a young French lady tellectual attainments, and who have who was strongly attached to a lady of formed a friendly regard, will agree to her own age, and neither offers of mar- write "friendly letters," and perhaps for

him to locate the special organs, and this leave her friend; this friend, however, died suddenly, and a day or two after the burial, she was found in her chamber dead, having committed suicide; she left a letter addressed to her parents which revealed the state of her mind previous to the fatal act, the substance of which was that she could not survive the loss of her friend. If the reader will consider the immense mass of development backward from the opening of the ear; that the whole back-head is heavy and long in that region, the excessive development of all the social organs, especially the



Fig. 126. FRENCH LADY. LARGE SOCIAL ORGANS. organ of Friendship, will be seen. One who has the social development weak (see Fig. 127), will have a short back-head: it will not be more than half as long from the opening of the ear backward as is the other head (Fig. 126).

When Friendship predominates in the social group, it will absorb all the other faculties and lead them to act as it were through it. Instead of falling in love, such persons must be addressed through Friendship, and a fraternal feeling awakened and strengthened; afterwards Conjugality and Amativeness will be called some birds and animals which hunt alone, into action. This is illustrated by young When the term at the academy closes, The remarkable engraving (Fig. 126) rep- those who have admired each other's inriage nor influence could induce her to six months this friendly letter-writing is

carried on, when all at once, the lady, for instance, becomes conscious that somewing more than friendship is now awakened, and if that consciousness becomes reciprocal, it is easy to see that Friendship becomes the initiatory of conjugal and matrimonial attachment.

In age, when Amativeness is supposed to have little influence in the tie that unites the elderly people who have lived happily in marriage, Friendship becomes the strong tie, along with Conjugality, and their last days become so influenced by this bond of Friendship that they feel greatly troubled when separated, and are likely to follow each other to the grave without a long interval.



Fig. 127. SMALL SOCIAL ORGANS.

Persons with predominant Friendship will seek to call their little children upward toward fraternity; instead of stooping down and petting the child, and wishing it to remain little, Friendship associates, fraternizes, says we to the little one, and desires to have the child grow tall and seem old and companionable to herself. Thus the mother will come to our office with her little boy, perhaps seven or eight years old; he has boots like a man, is dressed like a man, has a watch and a high hat and a cane, and the mother has trained him to act like a man; her request is made that we would examine "this young gentleman and see what his proper vocation will be." Another woman, in whom Parental Love is stronger, tries to keep the child back, to keep it young and little. She will dress him with a wide collar, parting his hair in the middle, curling it into ringlets .

will keep infantile kilts on him as long as possible, and when he must dress like a boy, it is like a little boy, with a jacket. She will lead him in by the hand, he being almost as tall as his mother, and she will say with the tenderest kind of a smileas she looks upon him, "I want you to examine my little boy, and tell me what he is going to make." She will take off his hat or cap, and help him to the seat, and sit and smile on the "dear little thing" during the whole operation, and when she is ready to go she takes him by the hand carefully and leads him away, his head and shoulders nearly as high as her own-Parental Love being unwilling to let go of him as a baby. Such a woman when she becomes a grandmother will call her great, six-foot high, bearded, grizzly sons boys; she can not let them be men; to her they are always children, always boys. One of the other kind will speak of my sons, my eldest son, when he is not more than seven years old, provided she has one younger; and we never saw such a manifestation, without finding in the mother's head the organs developed according to the principles here set forth.

Where Conjugal Love is the strongest, men for instance, and notably women are never flirts; they never pay attention to the other sex for the pleasant excitement of it. Any attention which such a man may offer, he considers of a matrimonial nature. Any attention received by a woman having Conjugal Love strongest will be regarded in the light of matrimony, and if she cannot reconcile herself to the idea of marrying the man, she will have very little to do with him in the way of sociability. Such people never "court for fun"; they are generally sober and earnest about it, and to them attention means matrimony; and when experience and acquaintance seem to indicate that they are not so well suited to each other as they ought to be, they drop the subject so as not to be the occasion of establishing any expectations which may not be realized. We see ladies who will hardly treat a gentleman with ordinary respect, certainly never permit the remotest cordiality and freedom unless she has her not well developed, matrimony is based mind made up that matrimony might be, if offered, desirable.

There is many a gentleman who seems quite distant and dignified among ladies, as if he hardly liked their society; he acts, in fact, among ladies as if he were engaged to some one who is absent, or like a man who is married and feels that general courtesy is all that is permissible; but let that young man find one whom he thinks he may marry, and his Conjugal affection will be awakened, and there will be an intimate, confidential sympathy established which will lead everybody to suppose that they are already engaged. To such a person courtesy means love, and love indicates the lifelong matrimonial bond.



Fig. 128. LOVE DEFICIENT.

By this it will be seen that ladies or gentlemen of culture, reputation, and refinement, may sometimes seem peculiar,



Fig. 129 Amativeness, Self-Esteem, and Firm-NESS SMALL

singular, and capricious in their conduct toward people of excellent standing and character. Where Conjugal Love is

upon some of the other faculties; it may be upon Friendship, as we have said, as the leading principle in the transaction; i.



Fig. 130. ELIZA COOK. A loving face and head.

may be on Amativeness mainly, and then their continued harmonious relations are likely to be doubtful. People who are attracted by passion are not likely to continue in harmonious relations unless they are so equally mated in that respect that the bonds shall be thereby made continuous. If one should be less developed in this respect or have less constitutional energy to sustain it, and the love were to falter, disagreement, disgust, separation, or divorce might be the result; but if Conjugal Love and Friendship were equally strong, the bonds of union might be unbroken, though one strand, Ametiveness, of the threefold cord were weak, or did not work in harmony with the others.

There is one more organ in this group, namely, Inhabitiveness. If the reader will think for a moment, one or more persons will be recalled whose attachment to land and house, and home, and home affairs, seems to be the strong, central element in their social life. When they receive company, they will show the rooms, the conveniences, the beautiful outlook this way and the other; they will show the garden and the land, the spring, the bird-house, the orchard, and will seem to worship all that belongs to the home.

Like a young bird that has just built her lager take them away; their love and frafirst nest, it is looked upon as a marvel ternity with each other take and keep and a paradise. Such a mother or father them together, in going, remaining, and will inspire their children with the fond- returning. Commend us to the men who est regard for the home, the land, the have no fugitive entertainments to which roof, everything that constitutes the place the wife and children might not be introcalled home; and memory, when they duced and become participants. separate, will come back to the old hearthstone, the "old oaken bucket," the "old arm-chair," the old shade-tree, and thus it seems to be the golden censer in which the incense of love is contained, and without which it would be in danger of being dissipated. Patriotism is the name for this feeling when it widens sufficiently to take in one's whole native land, his own home being, of course, the one bright, central point of it. It is beautiful and wonderfully useful to have this faculty strong. Such men when they have closed their store, or shut down their mill, or unhitched their team, will go as straight home to their house and the family, as the horse would go to his stall if unhitched a mile from it. Add to this Parental Love, Conjugai Love, Friendship, Amativeness, and we have the entire concentrated force of all that is social in our being. If this home-feeling be weak, men and women like to "go somewhere"; women will make many calls; like to make little trips to neighboring towns to see anybody they can think of as an excuse for shaking off the tedium of staying in one place. A man will go to his club or lodge, or to a bar-room, or the bowling alley, not that he loves his wife and children less than many others, but the home seems to him a kind of pen, prisonhouse, enclosure, restraint, and lacks elbow-room and freedom; he might take his wife and children with him to make excursions that were delightful and unexceptionable. The German takes his vrau and the children to the lager-beer saloon; they sit around the table and sip their lager in company, and even the baby in arms is given a taste of it, and they go home together. In such a case it would be presumed that the family loved each

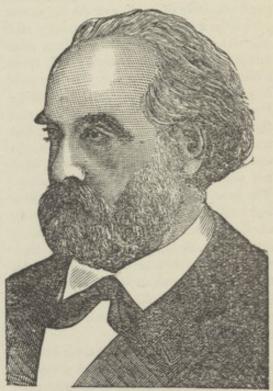


Fig. 131. M. GODIN, OF GUISE, FRANCE.

The founder of the "Familistere," or Co-operative Home. The structure is large enough to house most handsomely 20,000 working people in suits of rooms adapted to small families, and costing but \$2.50 per month. The Home stands on forty-four acres of ground, the whole costing \$216,000. It has proved a splendid success. He has all the Social Organs large, with Benevolence and intellect strongly marked.

The love of home, Inhabitiveness, is also indicated by the manner in which men and women are willing to spend money. Those in whom Inhabitiveness is predominant and the other social organs well developed, will earn money with pleasure, and pay it out liberally in whatever is calculated to make the home rich, pleasant, and valuable. England, particularly, the house is the great thought; money is expended for that without stint, and there seems to be other better than they loved the place a pride in having a good house well furwhere they lived; but the society and the nished and the home made attractive

We have never been in any region where the houses were so good, so nicely kept, and so attractive, in proportion to the ability of the families to expend money, as those of New England, or their descendants in the West. In the German settlements through New York, New Jersey, and Pennsylvania, the people are great admirers of stock, and the barns are generally a great deal more costly and elaborate than the houses. We have seen many a farm in Pennsylvania worth from a hundred to two hundred and fifty dollars an acre, with a barn perhaps costing from six to twelve thousand dollars, and the house roomy enough, to be sure, but in which a man in New England would dislike to live, though his income were not more than a dollar and a half a day. We have seen men, however, in New England, who would spend earnings freely on horses and vehicles for driving, dogs, guns, boats, fishing-tackle, and the like, who would permit broken windows to be mended with paper, or old hats, and doors to drag and not latch, the roof leaky, and everything indicating a kind of squalor inside.

Women sometimes worship their houses, and are more anxious to have a coat of paint, or new carpet, or nice curtains than they are to have good clothing or luscious food; others are the reverse, and dress themselves and their children finely, and eat sumptuously, but leave the house with shabby appointments, and seem to care but little about the general appearance.

The people in the South are less inclined to spend their money on houses than on lands and horses and hospitality; yet they have that kind of Inhabitiveness which gives an intense patriotism; they think a great deal of "My State," "My section," "The South," and we commend the spirit. Perhaps the New Englander is equally proud of his State, but specially desirous to have his house as good as he can afford it, and often considerably better. A Southerner's house or a Pennsylvanian's farm-house are not much of a men. Some animals have a feeble develcriterion by which to judge of their opment of Combativeness and Destructivewealth. The New Englander's house is ness, others have small Secretiveness and

sometimes all the property the man is worth, and he has to work at a trade or on a salary to eke out an economical existence; but his door-yard, fence, green blinds, white house, must be kept in shining array, and he may not have a hundred dollars to his name, except the house, after his incidental debts are cleared up.

THE SELFISH PROPENSITIES.

This group of organs is made up of the selfish propensities. These are Vitativeness, Combativeness, Destructiveness,



Fig. 132. SELFISH PROPENSITIES LARGE. Head wide above the ears.

Alimentiveness, and Secretiveness, and they are possessed by men in common with animals, though in the lower animals



Fig. 133. SELFISH PROPENSITIES SMALL. JAUP, President of the first Peace Society. the organs are modified in regard to relative strength somewhat as they are in

lated to self.

the desire to exist here and hereafter. as to the preservation of life; does not seek to avoid exposure, difficulties or dangers; and, in view of the life to come, has his doubts, in fact does not care. This sometimes becomes a central element in ism as wise as it is beneficent. the manifestation of the selfish feelingssuch persons. When this faculty works with Caution, the fear of death is the bane of the person's life. With Combativeness and Destructiveness it makes one with it large recover from injury or illof equal strength of constitution.

COMBATIVENESS,

nature and mode of activity, namely, defensiveness, and this is especially its function when it works in conjunction with threatens the welfare of the individual in any of his interests. This organ lies next

Acquisitiveness. The fox and cat are sly; the conjugal and friendly elements were the dog is frank and open and combative; located next to Combativeness, and inthe squirrel lays up treasures for the win- sisted that the armor of war and the arbor ter. Fowls like grain as well as the squir- of love should not be located side by side, rels do, but they never lay it up. These and therefore Phrenology must be absurd propensities have to do with maintaining in thus locating these organs. Our reply personal existence, and are therefore re- to that is, that animals and men will fight quicker for that which relates to love and The organ of Vitativeness, located a lit- friendship than they will for anything tle upward and backward of the opening else. Take the male of any tribe of aniof the ear, and giving width from side to mals, from the horse to the cat, and if side through the head at that region, gives more fierce battles are not waged on account of love and fraternity than on any When it is deficient, a person is careless other account, we will confess that the witticism of the professor is sound philosophy. But the mere statement of the juxtaposition of those organs is demonstration of a philosophy in mental organ-

When Combativeness is uncommonly "to be or not to be, is the question," with strong men will go to war for anything that is a decent provocation; they are fond of argument. Combativeness will work with Causality or wit; it would work to defend that which the sympathy approves; fight to the death, and as a soldier to sell it will work to defend conscience, or amhis life as dearly as possible. Persons bition, or pride; or, working with Cantion, defend against danger. We once ness that would cause others to succumb examined a man in public, and said that he was very fond of argument, and no subject would need a contestant if he were present. Whoever might start either by its name, expresses, in a measure, its side of an argument would find in this man a respondent. He leaned back and looked up, sitting as he was on the platform, and remarked, "I must join issue Cautiousness; but standing by itself it with you on that point, sir." My quiet gives the disposition to assail whatever reply was, "That is so, you always join issue."

Men who are required to drive business, to Conjugal Love, Friendship, and Amat-push work, and oversee, and urge matters, It notably defends in the di-need large Combativeness, and many a rection of the social feelings; whenever man is thereby made eminently useful, the child, the wife, the friend, the home and is esteemed indispensable. For inare assailed, Combativeness vaults into stance, in railroad work a man who is the saddle and draws the sabre, is ready called to be a "wreck-master," in railroad to join issue and sacrifice anything for the parlance, to prepare and hurry to the defense of the home and the home-circle. place where trains have been wrecked, and A professor in one of our American col- clear the track rapidly and promptly, leges, who has more wit than wisdom, needs Combativeness enough to assail anymade himself at once merry and ridiculous thing. We have witnessed work of that some years ago by ridiculing the idea that sort when waiting to have the track cleared

was marvellous to see how the broadheaded man would command his men, and Although this is a faculty which has a estimate upon Combe's definitions. good deal to do with quarrelling, there is the management of affairs, in respect to tussling, rushing things, rolling snowdiculous.

elaborates fully and clearly. He is almost aid in propagating his religious reforms? persuaded that it is properly localized, There is no difficulty in deciding which and is inclined to recognize it as an ele- was the more combative, Melancthon or ment in our constitution. His exposition Luther; for the physical development of of its scope and function is masterly, and the back-head of each is a perfect revelashows a power of keen analysis. He discovers the combative propensity to be superabundance of central energy, and

so we could go on with our train, and it jections to Combe's definition urged by Bain spring from a failure upon the part of Bain to comprehend exactly what the affairs under his control, and roll a car Combe intends to convey; in other words over and over as if it were but a basket, Bain puts an unfair (not intentionally, and yet he was thoroughly good-natured. Bain is too much of a Scotchman for that,)

"When Combe declares that the proa world of legitimate energy required in pensity of Combativeness is necessary even for philanthropic schemes, he does not which there is nothing of anger in its ex- mean the pure pleasure of fighting, but ercise. When boys play fiercely on the simply means that Combativeness supplies common, running, wrestling, jumping, courage in advancing those schemes, and the power to resist all opposing obstacles. balls, and whatever else the philosophical There is no difficulty, as Bain declares and mild manners of boys will concoct to that there is, in ascertaining whether a be done, requires all the Combativeness man is combative or not when a motive that one can carry without explosion, and influences him to undertake some couragesometimes they do explode; and while ous enterprise. There are motives which boys are terribly in earnest in their vigo- enlist every faculty of our constitution, rous play, they are not hateful or angry. and yet we do not find any difficulty in Thus a driving business man, whether he separating the adjuncts or supports of that runs steamboats or trains against compe- motive. We know perfectly well, for intition, or whether employed to construct stance, that Luther was exceedingly comrailroads during a given time, or to clear bative, and that Melancthon was not. the wreck where trains have been in colli- There was the same motive: both sought sion, or whether to break colts or govern to reform the Church; but both were not restive horses, or manage rude and uncul- equally bold. Luther feared neither devil tured men in masses, or go into battles nor man, but Melancthon shrank back for the country, and fight at Balaklava, even from a public avowal of his faith. or anywhere else, with a fierceness which When the combative Luther was by his is terrible—this faculty comes into play; side, Melancthon displayed a good deal of and, in the light of these great enter- courage; but when Luther died, Melancprises, the little, contemptible disputes thon completely broke down. Now here and squabbles which arise from an irri- were two men, both inspired by the same tated state of Combativeness become ri- motive, yet the difference in their combative spirit was immense. Was not the "The function of this organ Prof. Bain combative temper of Luther of immense tion.

"A mere novice in portrait reading made up of two distinct ingredients: the ought to be ashamed to say that he can discover no difference between Melancthe love of power in its most wide guise: thon's and Luther's Combativeness. We successful rivalry. He criticises George would differ also, in some respects, as re-Combe's definition of Combativeness at gards the definition given by Prof. Bain certain stages of his delineation of this that the combative principle is the love of organ. But it seems to us that the ob- power in its most wide guise, successful

rivalry. That there is an element of power its battles; it will live all night in two this power is different from the power half cut in two with a spear. While all enumerated under the function of self-es- the rest of the fish thus caught will be

fully ponder the definition given by of physical courage is the result. phrenologists, that all our faculties have analysis would vanish."

DESTRUCTIVENESS.

Sometimes Destructiveness becomes the leader in this group, and all the other faculties minister to its success. There are people who carry with them quiet revenges, waiting for a convenient time to bite or strike; in that case Secretiveness have Destructiveness large, many of them the bravest thing that lives. also Secretiveness and Combativeness, will endure, before they die, a great deal M abuse. It is hard to kill a cat, and a

in this propensity we admit, but aver that inches of water in the bottom of the boat, dead in five minutes, he will be alive at "It is a power of resistance to aggres- six hours after and ready to fight. The sion, not a feeling of authority. The feel- men who in the hard struggles and work ing of triumph which arises whenever a of life endure all things, and master the successful combatant defeats his opponent situation, are generally well endowed with is incidental to the combative propensity, Destructiveness. The surgeon requires and would arise upon the success of any it, the dentist needs it, the man who blasts other of our faculties. The martial ardor rocks, or cuts stones, or fells trees, needs displayed by troops, the love of debate, it; or those who work at anything that the spirit of contention which character- requires heavy blows or hard smiting are izes some men, is the real element in the better for having large Destructive-Combativeness rather than a feeling of ness; and when Destructiveness and Compower. And if Prof. Bain would care- bativeness unite, then the highest order

Destructiveness produces cruelty and various degrees of activity, from a low severity sometimes in animals, though state of manifestation to a high or pas- the animal may not have large Combatsional state, much of the confusion inci- iveness, and lacks courage. People speak dent to criticising the phrenological of "brave as a lion." The lion is not brave; he is a coward when the royal Bengal tiger, regarded as his equal, or when a lion that is fully his equal, is presented; he hesitates, makes a great parade, but does not get very near. The dog, on the other hand, will assail a lion, a tiger, a grizzly bear, an elephant, a dog, or a man, and he does not stop to count the size of his opponent. Many a man has been saved co-operates with Destructiveness; it steps because his little dog, who is as quick as lightly like a cat, it hides and waits like a a flash, has annoyed a bear, behind, that tiger, and strikes, when the fitting time was pursuing the man to the death; he comes. But Destructiveness has also its would turn to take care of the dog, which virtues; it gives staunchness, executive- would, of course, dodge back and keep ness, endurance under pressure and diffi- out of the way of the bear, while the man culty, and enables a man to suffer without would be gaining distance, and when the complaint, to hold on to his cause to the bear turned for the man again, the dog bitter end. We fancy there is a little of was at his heels biting his hamstrings. this feeling in the statement, "Though We know of nothing but the dog that will he slay me yet will I trust in him." Work- fight a foe forty times his bigness, or one ing with Vitativeness, or the love of life, of its own kind and bigness to the death, it is an element of endurance. For in- with such unqualified and eminent bravstance, all the carnivorous animals which ery; and, therefore, we account the dog

SECRETIVENESS.

Before dismissing the subject of Com. satfish so-called, that has a wide head, bativeness and Destructiveness, we may and is so great a fighter. and so cruel in remark that Secretiveness often works

in the play, and in the fighting, of animals largely endowed with these organs, loca- Secretiveness resembles that of the cat or ted in the middle lobe of the brain. Some the dog, and therefore the study of anidogs lack Secretiveness, and they know of no way but to go straight at their fighting, without tact or policy. There are some small dogs that are largely endowed with Secretiveness, which gives them the policy that enables them to fight a larger foe and win a victory by tact. We have seen a dog that, being overtaken by a larger one, would fall on his back by way of submission, and if the dog dared to approach his throat, he would catch the dog's foot and bite it so sharply, that the big dog would quit the fighting from sheer pain, and go off on three legs arguing against that kind of tactics, while the little dog would make good his retreat, looking back occasionally as much as to say, "I have met the enemy this time, and won the victory by stratagem."

The fox is known for large Secretiveness, and that is his central quality of character. The first skull of the fox ever presented to me as a Phrenologist was an interesting study. Having no idea what animal was represented by it, because the skull looks so much smaller than the furcovered head of its owner, I remarked that "the location of the organ of Secretiveness was uncommonly developed, and whatever animal it was, he must be distinguished for Secretiveness, as that was the master quality in that group of organs." At that moment an elderly man came up to me who proved to be an old hunter, and some one asked him what that skull was, and he replied with a kind of contempt, "That is a skull of a fox; I have shot many a dozen of them; I have a good many of their skulls now laid up." Secretiveness, then, would seem to be the central faculty of the fox; some dogs have it, all cats have it, and they do things indirectly where most dogs would do them directly. A cat does things by stealth, especially watching slyly until its prey comes within reach; while a dog sniffs is coming, and, of course, warning the quisitiveness, and keep it a secret as to

with Combativeness and Destructiveness yietim of his approach. Men are found whose development of Combativeness and mals aids in the study of men.

ACQUISITIVENESS

is located in this group, and gives wideness to the head about two inches upward and forward of the ear. As this organ gives the desire for property and possession, we study its nature wisely by studying the lower animals. Those that lay up their food, as squirrels lay up grain and nuts, have strong Acquisitiveness; and generally the element of Secretiveness will be found strongly marked too. We have known a fox to kill several chickens, and bury them for future use. Acquisitiveness led him to possess all he could get, and Secretiveness to hide what he did not then want. If he had had an equal amount of reason he would have known that he had taken twice as many as he could have used up; but this faculty was wanting. We know that dogs bury bones; there are two or three reasons for that: one is that the meat may become softened and mellow, so that it will come off from the bone easily, and they have enough of the gentlemanly sportsman to like their meat a little mellow; and thirdly it hides, in a measure, the booty away from other dogs.

In the human development where Acquisitiveness is strong, a man desires property of every kind. If he has large Alimentiveness, an organ located just forward of the ear and below Acquisitiveness, joining it, he will lay up food, articles to eat to gratify his appetite; some take a great pleasure in laying up nuts, fruits, vegetables, and meats, and have things dried and corned and preserved, and, as the Bible says, "much goods laid up for many years"; and in proportion as people take pleasure in laying up articles of food, we find them amply developed in Alimentiveness, or appetite; thus these faculties combine in that way. Others tne track and follows, announcing that he use Secretiveness in conjunction with Ac-

adelphia and quietly purchase stocks or somewhat relaxed. real estate, and let it seem at home that they are worth but a hundred thousand dollars, when they have perhaps a million. That gratifies Secretiveness and Acquisitiveness too; it may also help them by saving local taxation. If Secretiveness be strong and Acquisitiveness active, there will be a co-operation of these faculties in the shrewd, secretive way of carrying on business. We may say that nearly all the adulterations of everything, from the alloy dust into indian meal, or cotton into flanthe paper, and cost but perhaps a tenth of a cent a pound, while the paper may be sold for twelve cents a pound. Of course the intellect has to devise the ways and means, but the desire for gain, and the cunning way of using intellect to cover up, for the time being, the tricks of trade, a store full of goods of almost any kind, is, what a blunt preacher once said, be a good judge not to buy that which accustomed to co-ordinate. would be to him a cheat; and when the public, through Secretiveness and tact, learn how to detect one kind of trickery, those that perform the first act will study a shrewder way to hide the defects; consequently, men in whose eyes one can look with confidence and believe their words are truth and truth only, are more rare than they ought to be. The blood of Ananias and Sapphira has not run out,

how much money they are making. Men because, perhaps, the method of treatwill go from New York to Boston or Phil- ment of that kind of people has been

ALIMENTIVENESS.

the last faculty of this group, works naturally with Destructiveness and Secretiveness. Some animals are obliged to use Destructiveness to capture their prey, and that severe element is aroused and intensified by hunger and the keen demands of appetite. If the prey be such as can get out of the reach of the cat, for instance, that deals with rats and mice, she of silver and gold, to the putting of saw- needs Secretiveness to capture the prey by stealth, because a cat is too large to nel cloth, or linen into silk, or water into follow the rat or mouse into their narrow milk, comes from the combined activity retreats. On the contrary, the weasel, beof Acquisitiveness and Secretiveness, with ing smaller and strong and active, can fol-Cautiousness and Conscience low enough low a rat, has no Secretiveness, and apto permit it; but Secretiveness and Ac- pears to have no Caution; he does not mind quisitiveness work together in all the sly going around where men are; he can slip tricks and "corners" and overreaching away into any hole he likes, when the ocand under-getting which are so prevalent casion requires it, and he will chase rats in all the traffic from Wall Street to a pea- in all the labyrinth of their hiding-places nut-stand. In the manufacture of paper throughout the house, and there is a wonwhich publishers use, clay and divers derful squealing and running when his other things are used which increase the majesty comes to encounter his enemies, weight and help make up the solidity of because he can follow his game. He does not need Secretiveness, and his skill does not show itself as it does in the cat. in turn each one of these faculties becomes a centre around which all of its immediate associates cluster; each supplements the other, and aids in carrying out in turn the desires and purposes that are born of each illustrate the activity of these organs. It faculty; and the infinite variety in the would hardly be exaggeration to say, that tendencies and co-ordinations of these faculties shows better when contemplating them in their activity. There are methods "made up of falsehood"; and one has to of determinating how these faculties are

THE SELFISH SENTIMENTS.

The functions of these faculties, viz., Cautiousness, Approbativeness, Self-esteem, and Firmness, work partly in respect to ourselves : hence they are called selfish, and partly in our relations with others: hence they have the nature of a sentiment.

We have only to imagine a person to be

atterly destitute of Cautiousness, which imparts the sense of feer; or Approbativeness, which gives the desire for approval of our fellows, whether friends or strangers; or Self-esteem, which lays the foundation for personal self-reliance and ability to adopt a course of responsibility without flinching; or Firmness, which gives strength of purpose and steadfastness, to see what a blank the deficiency of any one of these would make in the character. It would be almost equivalent to taking a cog out of a wheel in machinery, which would suspend the motion or render it exceedingly rough and jangled. Yet we have men who seem almost wholly deficient in respect to them, as we have also men who seem excessively developed in one or another of them. As we have stated in the early part of this subject, character is made up of a combination of faculties, and the shades of character depend upon the relative strength or weakness of the different faculties.

CAUTIOUSNESS.

dangers belonging to life.

Cautiousness will keep it on the alert respecting difficulty and danger, and is teresting ways. it, and perhaps, when overtaken, there is a battle for liberty; but let the nurse remain fixed, and as soon as the child finds it is not pursued, it will cautiously propeed a little distance, and on seeing somehing that it does not understand, and finding itself, as it were, thrown on its own resources and responsibility, it begins to hesitate and retreat, and perhaps is glad to run back to its nurse's arms.

When the faculty of Caatiousness is very weak, the child or man seems to have yery little idea of danger, and it should be remembered that while grown people suppose their intellect is their guard in reference to danger, the interior sense of the possibility of danger comes from Cautiousness, and the reason helps to study the relations of the outward world to us in respect to danger. For instance, while driving, a man sees a black shadow, or a muddy hole, he can not tell which, in the distance; he has seen such things before, and has found by experiment that danger may be connected with them. The intellectual appreciation of that which he has seen awakens at once a feeling of cautiousness; but remember, it is Cautiousness, not the reason, that feels the fear; because the fear arouses before the intellect knows whether it is a deep mud-hole or merely one that has been dried up and made solid and safe. Yet Cautiousness, that knows nothing but fear, raises an apprehension, and the imagination may come in to recount all the troubles that Let us consider the effect of Cautious- ever have arisen to the man in a lifetime ness on the character of a human being; in regard to such apparent danger, and premising that an equal and fair develop- drivers will remember how flat they feel ment of this important function is intend- when having approached near enough to ed to be, and works as a judicious, pruden- such a dangerous-looking place to see tial regulator of the whole life and character what it is, they find that there is no as it stands related to the troubles and danger at all. Thus Cautiousness mingles with every faculty that can possibly be In the child, the proper development of interested in personal safety. Caution combines with other faculties in many in-When the intellect, worth more in the promotion of its safety through observation and memory, brings than the care of half a dozen nurses. to Cautiousness a picture of that which When a little child can get freed from its may be dangerous, Caution insists on a attendant on the street, it runs with all its careful investigation and prudential apmight, and the nurse generally runs after proach to the difficulty, and does not cease its monitions until judgment and other sources of knowledge, have, by their co-ordinate action upon Caution, allayed its excitement.

It is interesting to notice how far fear arouses courage, or how Cautiousness awakens Combativeness and Destructiveness; hence, if a man is cornered and assailed, although if in an open field he might obey Caution and run for his life,

something fiercer than courage—with the port him but a single board twelve inches action upon Combativeness and Destruct- was made of spruce timber, which is tough, and she will fight ten men and ten dogsrambled in the forests where partridges are to be found will recall instances in which they have surprised the timid hen with her chicks, and the first intimation the innocent wanderer has that he has disturbed the home of the timid partridge with her brood, is, by feeling her fighting at his legs; of course, impotently in this case, but with a fierceness begotten of parental love and fear as connected with the chicks; for without the chicks she would have taken wing and gone with a whirr out of sight; but with her chicks she would fight an army. In this case parental love overcomes Caution or arouses Caution in behalf of her chicks, and then Combativeness and Destructiveness are brought to the work of defending the chicks at the risk of her own life. We have many a time fled from such an encounter with a sublime admiration for the heroic self-devotion of the mother, who is known to be, in respect to herself, extremely timid. Thus we see how Cautiousness, which is called a selfish sentiment, becomes a social element when fear is excited in behalf of progeny that is cherished by parental love. In this case Caution is not a selfish sentiment.

Where Cautiousness is moderately developed people appear rash, and lacking in good judgment, with respect to danger.

when brought to bay will fight with neck if he fell, and with nothing to supdesperation that fear begets, and in its wide and twelve feet long; to be sure, it iveness makes them terrible. It is not but it would bend more than a foot when courage but desperation that leads one to he walked from end to end. Every one fight when cornered. A dog will fight else was excited, through the monitions better in an open field than he will in a of Cautiousness; but he had studied it corner, for when cornered he is apt to from an intellectual point of view and felt submit, while if assailed in an open field safe, just as the most of us would have he fights back. In fact, a dog will fight done if the board had been only two feet a lion or a bear, or bite a wagon-wheel; from the ground; then the discomfort of but a cat assailed in the open field will the yielding to the tread in walking upon retreat up a tree or anywhere else that the board would be the only inconvenpromises safety; but let a cat be cornered, ience, as there would be no danger to excite Cautiousness. He insisted upon it the more there are the fiercer will she that it was strong enough to hold him; so fight, and perish fighting. Men who have it was, but we were studying to be certain that there was no flaw or knotty place in the board which would make it liable to break. Thus Cautiousness was our guide. Any one of us would have run, on what we call a "spring board," if properly made from selected material. Such a board is sometimes used where swimmers dive into the river or lake, and therefore involves no danger to neck or limb; but our friend would pick up a board, apparently with carelessness, and slap it on its supports, and walk on it as if it were solid ground, so far as any sense of danger were concerned. Men with little Cautiousness often leave out important matter in writing a letter or an important contract; they are apt to take things for granted. Theirs is not the motto of large Caution. namely, "Sure bind, sure find," but rather, "I think it will be all right."

An error in educational government often arises through the excessive action of this faculty in those who have the charge of children. Such persons will try to frighten the little subject, threatening to go away and leave it, or to give it to some stranger to carry off, or to hand it over to the policeman, or say that some dangerous agency will seize upon it and carry it off in the dark; and confiding and timid childhood respects the monition and, perhaps, submits through fear. When We have seen a man working on a scaf- old enough to know that the fears were fold high enough to break his legs or fictitious, it learns to discredit anything

the person may say; but the evil effects she would bundle up her chicks and pin of the excessive activity of his Cautiousness is not necessarily abrogated by time, and the probability is, that that same child, when it becomes a mother or father. will repeat the same terrible treatment toward children. We would emphasize this to condemn it, and appeal to mothers especially to rectify their error in this regard. If a child has excessive Caution it is generally appealed to through Caution, just as, if it has excessive Alimentiveness, candies and cakes and something to eat will be promised. A person with a full share of Cautiousness, without excess, will feel cautious in regard to reputation, in regard to one's dignity and standing, in regard to one's property, working with Acquisitiveness, or in regard to one's friendships and social interests.

Let a person love another, and with what prudence and anxious care everything will be done to avoid what will be calculated to disturb that delightful relationship. If one wants vivid eviterest for the little sleeping infant; how any person to make a racket; how she will cover up the face with a double green veil, then a blanket, and perhaps a shawl, in the middle of July, when the child wants all the fresh air possible! We have seen a child pinned up like a sore finger in cold weather until it required a mother and grandmother to find out where the head was, and undo it; and one, the first baby, was so wrapped that it was black in the face when undone. And we can see it in a hen when she comes, the first time, from the nest with a dozen chicks, how every feather stands on end perpendicularly; how she swings on of insanity. If she were a human mother from the forehead, and from the back up-

them tight.

APPROBATIVENESS.

Approbativeness brings us into relationship with our fellow-men. Since we must live with others, the desire of approval is apparently necessary, though some people seem so utterly deficient in this faculty that they seem to care nothing about public opinion, and "I don't care" is the frequent remark. This, however, is sometimes mere bravado and a kind of defense against criticism; but generally people do care, some excessively so, and they suffer untold agonies through their fear of ridicule, censure, or disgrace; and if the reader will think what is done and avoided for the sake of the speech of people, he will get an idea of the influence of Approbativeness upon the action of nearly every other faculty. Let some new style of dress or of dressing the hair be introduced, and how much ashamed and mortified people soon bedence of Cautiousness as connected with come if they are not able to copy the the social nature, let him watch a young fashion and adopt the usage. Dr. Frankmother as she exhibits it in her tender in- lin said that "if everybody were blind but himself, he would not care particucarefully she walks lest it be awakened; larly about the color or cut of his clothes," how silently she closes doors or opens and the supposition is that people are not them; how she refrains from permitting blind; we therefore do care about the color and cut of our clothing. Watch a party of ladies and gentlemen as they meet on the street; see how the eye sweeps from foot to head to take in the whole make-up of a person's wardrobe. If the fashion is a little out of date there is a curl of the lip and an evident, "Oh, how can she be so dowdy as to wear that old thing, a last year's hat trimmed in the old style; why does she comb her hair that way? why don't she cover up her forehead with a bang?" And in phrenological examinations we are sometimes required to brush away the bang from the forehead in order to judge the developher centre and squalls defiance at every- ments, and the girl or lady will scramble thing that might alarm or harm a chick! to fix it back again as if it were shameful In other words, it is Parental Love and to show her bare forehead, forgetting that Cautiousness combined; and on the eve six years before she combed her hair away

ward to the crown of the head, and tied it with a cord, and that it was then the thing are strained, and Conscience is twisted, to do. When the style is to have the and energy is aroused and policy is insleeves flowing and open clear to the voked, and the desire and skill to make elbow, or to have them so tight one can money strained to its highest tension, to hardly get them on, or to have the skirts satisfy these exorbitant and many times so long that they trail the sidewalk, or, foolish claims of Approbativeness. Of what is much better, short enough to be course, Inhabitiveness gives a desire to kept clean and tidy, whatever is the fash- have a home, but it does not necessarily ion, the usage at any time or place, or say that it must be four stories high, if demanded by public sentiment on the two stories are enough; or that it should subject, Approbativeness seizes upon, and cost sixty thousand or a hundred and six-Imitation helps to carry it out. A few ty thousand dollars. years ago the white houses were painted a soft brown, which perhaps was an im- on a famous and beautiful corner, had a provement, making them easier to the wife, without children, and they maineye. At one time the sashes are painted tained their great four-story house, and primson, at another time green; curtains had a drove of servants. The man finally must be at one time of lace, again of soft sold his house, and when questioned on brown muslin, again Chinese red; and we the subject, replied: "I have kept a serhave seen within a year or two plaid for vants' boarding-house long enough." parlor curtains, and a whole block of Everybody knows that the desire to have houses would be curtained exactly alike; a stylish home and keep everything going one following another. Let us see how as if there were abundant wealth and re-Approbativeness, then, co-ordinates with finement and taste to be ministered to, as other faculties to bring about results; well as to entertain friends for the gratihow it arouses Combativeness to defend the fication of the social nature, was the reputation; how it makes the person who prime motive of keeping up such an esis combative feel ambitious to be the best tablishment. We hear ladies talking to fighter, or the best runner, or the best each other, "They live in handsome swimmer; or with Tune, the best musi- style"; "they keep four servants"; and cian, the best chess-player, or billiard perhaps in six months the man fails and player, or walker. How Approbativeness pays thirty cents on a dollar, and they excites Acquisitiveness, or masters it, so call that "being unfortunate in business." that it will spend its earnings on whatever How Approbativeness is fostered by church.

Around these desirable things points

A gentleman in Brooklyn who resided is fashionable. Everybody knows that Ideality, by the sense of the beautiful; many people have to suffer and sacrifice how Approbativeness and music work toin certain directions in order to have their gether; how historical and educational curtains, their carpets, their furniture, elements minister, by success and elotheir dress and appearance, such as the quence and intellectual power, to the public seems to require; each is ambi-gratification of Approbativeness; nay, tious to stand well in the esteem of all; how does Approbativeness sting and inhence a point is strained to have things spire the student to "consume the midnice, like other people, and Acquisitive- night oil," that he may win the prize of ness and Secretiveness are enlisted to earn his academic course and stand first as a the money; hence the endeavor of people scholar; how we boast of the splendid inin great money centres for the acquisition tellect of our friends, of their excellent of wealth to live on a fashionable street, culture; and Approbativeness sits like a and drive a stylish carriage, and have a queen and plays upon the faculties, and desirable and prominent opera box, and they work to win our applause and to an ambitiously located pew in the best gratify our ambition, and the result is called happiness.

SELF-ESTEEM.

Unfortunately, in America, this organ is not so large as Approbativeness, while it ought to be better developed so as to give a man an intrinsic, interior, personal sense of his ability, worth, and power;



Fig. 184. SELF-ESTEEM AND FIRMNESS LARGE.

and then, if people censure him injuriously, if they ridicule him contrary to propriety, he can stand erect and wait until he gets appreciation. Self-esteem gives a man a sense of individual honor, while Approbativeness gives one a keen sense of the honor which other people may bestow; in other words, reputation. Let it be remembered that the sentiment of honor which is born of conscience, reason and Self-esteem, is individual, intrinsic, and interior, while reputation, being only what other people think of us, not that which we think of ourselves, comes through Approbativeness. Those with large Approbativeness are often called proud, but more correctly vain; those with large Self-esteem are often thought not to be proud, yet they are really the only proud people we have; such a man, when conscious he is in the right, moves onward with dignity and self-possession; looks with pity or contempt upon the trifling vanities of life and the varying currents of approval and disapproval, according to the guides of fashion; can stand erect as St. Paul stood up, saying, "None of these things move me."

A man with large Self-esteem, good intellect and good morals, and with Approbativeness subordinate, so that its voice is not permitted to be very distinctly

heard, moves with a dignified self-respect, stands erect, draws his head well upward and backward; does not brag; does not try to show off; doesn't seem to care whether people appreciate the good thing, he says or does; wkether they admire his excellent team, or handsome fields, or snug and comfortable home; he does not dress to attract attention, but to clothe himself with decency and cleanliness, and with sufficient regard to public sentiment as not to be eccentric, and he moves with steady strength of character, and many people think that if he had any pride he would try to do as other people do.

The difference between Approbativeness and Self-esteem is marked, yet they are often blended in people's estimation, and are convertible terms. Phrenology understands it differently. To illustrate: A farmer's wife had large Approbativeness, and wanted to be in style and have her husband dress handsomely. He was going with a load of potatoes to the village, where he was well known, and a deacon in the church. She ran to the door as he got ready to drive off, saying, "Here, John, put on a better coat." "Oh, pshaw, Mary, they all know me down there"; and he wore the old coat that was fit for the work. The next day he was going with a load of potatoes to a neighboring village, and she insisted that as he was going over there he must put on a better coat. "Oh, never mind, Mary, nobody knows me over there." She wanted him to wear nice clothes where he was known, because he was known, and also where he was not known; and for the same reason the man insisted on not wearing such clothes as were not adapted to the dirty work he had in hand. Self-esteem serves to give a man a consciousness of his own talent and worth, and to esteem himself justly, or rather does not produce a desire to be estimated beyond his merit; it gives him a sense of his own personal worth, and makes him believe that he can do whatever it may be his duty to do. If elected to preside over a public meeting, he accepts the position and tries it; but his want of knowledge and expertness is soon seen to the whole house; yet he looks on the congregation with dignity, and will follow the suggestions which intellectual men of experience may offer in the way of motions; while a man who was too diffident to believe himself capable of occupying the position, and declined the election positively, as soon as the man with large Self-esteem is fairly seated and his inexperience is shown, the modest man takes exception to the ruling of the chair, argues the points; he really knows how, but he was afraid, with his Approbativeness and Caution, to try it. The other with large Self-esteem and neither Approbativeness nor Caution large enough to alarm him, presides, and does not know to this day but that he did it handsomely.

A man with large Self-esteem governs; he likes to govern; believes he is capable of governing; and sometimes, if he has Combativeness and Destructiveness large, and not very strong Benevolence or social feeling, becomes tyrannical in his control of others. Such a man acquires property to give him power and independence, and sometimes wears poor clothing and drives a shabby team; has a house meanly furnished, and sets a parsimonious table for the sake of gaining property, or saving expense that he may increase his wealth, that he may ultimately stand serenely supreme, the richest man in town. He has real pride in being shabby in his dress and appearance; the pride consists in his feeling that he is not a servant of public sentiment; it gratifies his Self-esteem to feel that he is above public opinion. He dignifies work and calls it by its right name; he doesn't talk about obtaining a position and getting a situation. If he is in a bank or store, he will speak of being very much confined by his work in the bank or store; and if he wishes to do it, he works in his garden and calls it work; he works in his hay-field and trims his trees and his grape-vines; he carries his own valise, if convenient, and is neither afraid nor ashamed to serve his own wants or those of his family.

A dudish and dandy young man in Boston, eighty years ago, started housekeeping in a small way, and having bought a couple of pounds of meat, wondered whom he could get to carry it home for him; and there was a plainly dressed, elderly man stood there and asked what he would give to have it carried home, and he told him a dime; he said, "I will carry it for you," and he trudged along, following the slender understanding of the master of the ceremonies until he came to the door, and as he paid him his money he thought he would ask the old man his name, thinking he might want to get him to do other errands; he replied, "They call me in Boston Billy Gray." He was the John Jacob Astor of Boston; the millionaire of his time. We did not learn whether the business relations were continued; of course it was fun for Gray; we fancy it was not fun for the other, and perhaps he never repeated the story. We judge the young man had the larger Approbativeness and "Billy Gray" had the larger Self-esteem. But there is a point with some men which the possession of a million dollars or fifty millions enables them. to reach in character, namely, as Mrs. A. T. Stewart said in a little party of ladies, when she appeared without jewelry, without a ribbon or a flounce on her dress, and saw she was being scanned by some old friend: "This is one of the privileges of wealth, that one can dress as one pleases." Of course, she knew she was richly and nicely dressed, but she did not feel the need of putting on flounces and trimmings and trappings, as everybody knew she could have all she wanted.

FIRMNESS.

Firmness may be said to co-ordinate with nearly every faculty, and that sensibly and palpably. What a wonderful hitching-post is Firmness to Conscience, to Self-esteem, to Cautiousness and Approbativeness. When Pierpont cried in a poetic fervor,

"Stand! the ground is your own, my braves; Will ye give it up to slaves? Will ye look for greener graves?"

he exercised his own tremendous Firm-

ness and invoked every faculty to perma- popular, so unprofitable and so dangerous. nency, courage, and self-reliance, and the manifestation of power. When Veneration was excited in conjunction with Firmness in the Psalmist, he says: "My heart is fixed; O God, my heart is fixed." So,



GEORGE BANCROFT-FIRMNI 38, JELF-E8-TEEM, AND CONTINUITY LARGE.

also, when Isaiah said, "Trust ye in the Lord forever, for in the Lord Jehovah is everlasting strength," Firmness and Veneration acted together. When Ruth said to Naomi with the activity of her friendship, stimulated and strengthened by Firmness, she uttered the words which immortalized her name and her friendship: "Entreat me not to leave thee, or to return from following after thee; for whither thou goest I will go, and where thou lodgest I will lodge; thy people shall be my people, and thy God my God; where thou diest I will die, and there will I be buried; the Lord do so to me, and more also, if aught but death part thee and me." What reader has not felt at times-I must stand firmly in this position; I must call on courage and hope and fear and shame; I must summon affection and conscience and reason, and rally all that I know or dream or fear, to abide by this central and necessary resolution? "I am in earnest, I will not equivocate, I will not excuse, I will not retreat a single inch, and I will be heard," said the brave but persistent William Lloyd Garrison; and with less Firmness than he had, he never would have taken

CONTINUITY.

Continuity is located between the Selfish Sentiments and Social feelings, as if it were a middle-man between the two groups. It is different from Firmness in this, that it gives patient application, or persistency, while Firmness gives steadfastness and determination. Let us illustrate the two faculties. There is ice on the Hudson River, and it is capital sleighing to Poughkeepsie, seventy-five miles. On the turnpike it is also good sleighing along the shore. Two men starting for Poughkeepsie with an equally enduring team, one takes the straight, level, solid track on the ice, because he has large Continuity; he has also large Firmness, and the faculties would naturally co-ordinate. When he has wrapped himself in his blankets and furs, and only his eyes and nose are exposed to the stinging frost, he is extremely happy in the fact that he has nothing to do but plod, plod, plod, and stick to it until he has conquered the seventy-five miles. The other man has moderate Continuity, but equally large Firmness. He prefers to go winding through the villages where every variety surrounds him, where no two half miles of road are alike consecutively, and his love of change, the up and down hill, and turning curves, and passing elegant dwellings through the villages, keep his mind on the alert all the time, and yet Firmness says, go on, go on, go on, to his team, and the two men reach the hotel in Poughkeepsie at the same moment; each has been persistent and happy in the performance of the journey. Suppose we change, and let the man fond of monotony take the field of variety, and he that must have variety to be happy takes the monotonous route on the ice; certainly the man on the ice would have nothing to keep him from freezing but the blankets; he would wonder when, when shall I reach that far-distant point? Fourteen miles and not a turn! The man on the shore, with large Firmness and Continuity, would and maintained as he did a stand so un- feel annoyed by the variety; everything

would seem to be an obstacle, every curve a difficulty, everything that diverted his attention from the central thought an interference, an impertinence, and he would reach his destination very sour and feel much broken up. The other would emerge from the icy road on the river, saying, "You will never catch me on such a journey as that again; pelting away in the northwest wind all day, with not anything but ice, and ice, and distance."

THE MORAL AND RELIGIOUS FACUL-

See Figs. 16, 81, 92, 98,

Situated, as these organs are, in the superior part of the head, they give roundness, fullness, and breadth to the tophead; height from the opening of the ear to the region of their location, is the chief indication of their large development. The moral nature gives man the supremacy over all creatures, and in proportion as a man has a large development of these faculties does he become supreme over his fellow men. There is a brute force, dynamic power, courage, and fighting qualities, which give men a certain kind of physical domination, but after all, Integrity, Hope, Reverence, Spirituality, and Benevolence give to a human being value, a character that takes hold on the immortal verities, and thereby he is placed in a serene and superior altitude, as compared with men who live for sense and things physical, merely. Imagine the world and society, with the element of Integrity blotted out. When men and nations become demoralized, and cities are given over to rapine and plunder, we see what men would be without the moral sentiments; the animal nature seems then to be set free to revel with all the impetnosity of blind passion. The whole realm of law and righteousness, the whole sweep and scope of rectitude and propriety, finds its seat and centre in this moral group, more especially, perhaps, in Conscientiousness. These faculties sit regnant over the others, and teach us to feel responsibility in regard to our duty to

our fellow men, and even to the lower animals. Justice may be said to be the bulwark of human society, without which it would become disintegrated, when might would become the only right, and power would become privilege; but under the domain of righteous law, born of Conscience and reason, the world's passions are held in check, and men learn to do each other justice and refrain from the wrongful exercise of power.

All nations have some system of religion, varying according to their circumstances, and somewhat according to the development of the other faculties, but the religious basis is in this moral group, the tendency to worship some Supreme Being, to acknowledge allegiance to higher power, to feel the spirit of incumbency and obligation, and to stand in the midst of temptation centered in rectitude.

There is no feeling in human life so strong as the religious; the world has fought more battles, wasted more strength in argument on theological points, than on any other. When we look at men casually, we sometimes think the love of gain, and the desire for ascendancy and power are the strongest motives, but the deeper we study the subject, the more we investigate history, the more we must be convinced that the moral nature is dearest to all nations. The persecutions and privations and martyrdoms, which men and nations will suffer on account of their religious opinions, astonish the reader of history. While the territory may be obtained by conquest or cession, and the boundary lines effaced without an ending scar; the religious controversies, the wars and persecutions on that account stand forth in history with fearful distinctness.

The religious feelings give us emotions in the direction of integrity, worship, sympathy, hope and faith, but the religious feelings need for their proper aid and guidance a harmonious development of intellectual power, otherwise the religion is liable to become cruelty, or to be warped into superstition. But how do the moral faculties work together? Veneration may not be large enough in a given

head to prompt a person to the performance of religious duty as it is understood. For instance, a person says, "I think I won't go to church this morning, I am wearied and tired," and Veneration and Spirituality are not strong enough to lead to the performance of that service; but Conscience begins to nibble at the man, and after the first bell has rung he feels that it his duty to go; he don't want to, but can't be comfortable under the lash of Conscience without, so he gets ready and hurries off to church; and when he hears the music and listens to the prayers and the sermon, his other religious faculties become awakened, and he goes home happy to think he did not miss the opportunity of being in church, and he wonders how he could have hesitated.

A man with moderate Conscientiousness, if he have large Spirituality and Veneration, will listen to the commands of the Scriptures, or the monitions of the priest, in respect to rectitude; he may be informed that God will hold us responsible for the performance of duty, and the fear of God, or the thought of God, will lead to an awakening of Conscience; many a person will say "I would not do this if it were not for God's all-seeing eye." "Thou God seest me," makes hundreds of men more honest than they would otherwise be. Some, without Veneration, neither fear God nor regard man, but having large Conscientiousness they do right because it is right; hence we find many an upright man who has but very little regard for things spiritual and sacred.

Benevolence sometimes becomes the master spirit, and the philanthropist makes a specialty of his brilliant endeavors. Mr. Bergh has large Benevolence, and fortunately he devotes himself to the speechless animals, who have been abused beyond mention, and now everywhere, under the blaze of civilization at least, the officers of the "Society for the Prevention of Cruelty to Animals," are supposed to be going to and fro, and when a man is seen to whip his team in anger, and some respectable man stops and looks,

the irate Jehu will put up his whip, and let his horse rest a minute or two and get breath, and then he will go of his own accord; and Mr. Bergh has done a greawork for the horses, and for the men who own horses, and has taught kindness and humanity and self-restraint to those who drive other people's horses, and every owner of a horse in the country could afford to pay five dollars a year to the maintenance of that excellent institution.

It is amusing to see how Benevolence will excite Combativeness; if one having large Benevolence sees a horse, or a child, or other person abused, how quickly it will arouse Conscience, Firmness, perhaps Self-esteem and Combativeness, and the man is ready to fight in defense of the defenseless; kindness excites the spirit of chastisement, and it frequently happens that Mr. Bergh's officers have a sharp set to with selfish, half-drunken men, who are trying to wreak their anger by abusing the horse.

Hope and Spirituality work as coadjutors; Faith or Spirituality gives us a belief in the possible, while Hope gives us the disposition to expect what we desire; many a man believes that much is possible, but he has not Hope to expect what is possible. Some have great Hope, and yet moderate Faith, and they are somewhat in the condition that Pat was about his pig when it was killed; somebody asked him how much the pig weighed, and he replied, "He did not weigh half as much as I expected, and I never thought he would."

Sometimes people lack Conscientiousness, and have wonderful Caution and Approbativeness; these organs being located in juxtaposition with Conscience, help to spur it up and excite it, and a man with small Conscientiousness will do very much more if he have Caution and Approbativeness large than if they are deficient. Sometimes Approbativeness seems to be almost the only Conscience a person has, it works instead of Conscience; with such a person the inquiry is not "What is right?" but "What will the people think?" "What will the public say if I do, or fail

sent to church through the activity of Ap- the comforts, conveniences, and elegances

centre faculty, coming in contact with all the region of the temples, backward from the other organs, it naturally tends to ex- the external corner of the eyebrow directcite each and all, as it sits regnant in the ly forward of the organ of Acquisitivecentre of the top-head; it is a pleasant fancy at least to think that it is the crowning element of the mind, and broods over all men's conduct and character. The Bible says, "The fear of the Lord is the beginning of wisdom," Man recognizing a Supreme, just and merciful Ruler of the universe, will see and feel the propriety of every law of justice, of prudence, of respectability and kindly and friendly sympathy; thus Veneration may become a centre faculty, the inspiration of all the others, and we always have a feeling when we find the moral organs large, and especially Veneration, that the person has an alliance with the higher life and that the common and subordinate duties are much more likely to be respected and reformed, than when we find Veneration moderate. It is a great defect in character, to lack the respect which Veneration, imparts towards eminent and venerable human beings, and towards that which is highest and best in all we think and know.

SEMI-INTELLECTUAL SENTIMENTS.

This class of organs is located in the region of the temples, and when large, gives width to that region upward and backward from the external angle of the eyebrow, and an expandedness to the upper part of the side-head. In this group are located Constructiveness, Ideality, Sublimity, Imitation, and Mirthfulness. These faculties tend to humanize, and refine, and elevate life and character.

CONSTRUCTIVENESS.

to do, this or that?" Sometimes men are of much of the wealth, and nearly all of probativeness or fear of public sentiment. of life; this faculty, therefore, is one of As Veneration or the sense of God is a very great importance. It is located in



Fig. 136. Constructiveness Large-Count Vow MOLTKE.

ness. Without the faculty of Constructiveness no man could live where winter reigns three or four months in a year; and we find that in hot climates, where housing and clothing are comparatively unnecessary, the faculty of Constructiveness is not much developed. The North American Indian, living in a cold climate, where he is obliged to fabricate ingenious contrivances for catching fish, killing game, and making for himself clothing aud shelter, has a good development of this organ; while in the torrid zone, especially in Africa, the negro is seldom much developed in that organ. When removed, however, to a cooler climate, and work more or less mechanical be-Constructiveness is eminently an in- comes necessary, this organ becomes betventive and tool-using faculty; it is pos- ter developed than it is among the people sessed by men in common with some of of his native land. In any climate suited the lower animals; and if we look about to the best development of the human us, we shall see that mechanical inven- race, employment that calls into use Contion and ingenuity constitute the source structiveness and ingenuity seems to be about as natural as walking; hence, we notice the little girl enjoys life as well while using her scissors and needle in the construction of dolls' clothes, as she would in mere play and sport; and a boy tries to build a cart, and constructs railroads, and boats, and water-mills, and appears



Fig. 137. King Ludwig. IDEALITY LARGE.

to take great pleasure in the processes.

There is no education in life in which a
good development and proper training of
the faculty of Constructiveness would not
be a benefit to the person. If he be a



Fig. 138. Rubens. Ideality, Form, and Color. lawyer, cases arise in which mechanical invention may be in question, or the excellence of workmanship in some manner may be the point, and it is a pity that the great lawyer should have neither talent

for mechanism nor any knowledge or training in respect to construction in gen-Three-quarters of the merchants require mechanical talent to understand the construction of the articles which they have occasion to sell; and to be a hardware man, one needs all the talents that are required to manufacture the goods that are to be sold. If we think over the great names which history delights to honor, those who have benefited the world by inventions come to the mind and the lip instantly. The steam-engine is doing so much, that its inventor, James Watt, may not be forgotten. When we think of electricity and the uses which are made of it, the names of Franklin, Morse, and Edison are suggested. In this age of steam navigation, Fulton, Ericsson, and Roach may not be forgotten. The sound of the power loom and the spinning-jenny reminds us of Arkwright and Slater. Our morning paper should call to mind Hoe, the inventor of the mammoth printingpress. Whatever is made by the sewingmachine will keep the memory of Howe in the minds of the public. And whoever crosses the wonderful suspension bridges of Cincinnati, Niagara, or Brooklyn, will remember Roebling. And the farmer old enough to remember the old-fashion scythe and cradle, will think of McCormick with thankfulness and pride, when he sees the golden harvest or the waving grass levelled without severe labor of man by the reaper and mower. And not to forget the special service of Ericsson in the invention of the propeller steamship, and especially in the total revolution in naval warfare by his invention of the Monitor, must lead us to feel that those of the human race most deserving of honor, not to say crowns, must be looked for not alone among poets, and orators, and philanthropists, but among inventors whose inventive talent and skill have made the earth smile with improvements, and changed the solitary ocean into a field of

cellence of workmanship in some manner
may be the point, and it is a pity that the
great lawyer should have neither talent is that of practical construction. It some-

times seems to work with perception, and but adorns it. of organs. When the mind takes on the clothe it. financial speculative spirit and Constructiveness seems to be the chief factor, it works in conjunction with Acquisitiveness, and the two organs will seem to be developed, as it were, from one base. When it works in the direction of invention, the development is upward in conjunction with Ideality; and the practical phrenologist will readily infer the mode of activity.

IDEALITY.

Ideality is located directly above Constructiveness, and its office appears to be adapted to appreciate and minister to beauty, perfection and refinement. The artist whose skill is employed in works of beauty, must have this faculty strongly marked. We look abroad into life, and find that nature is full of beauty; utility seems to be sought in a thousand things, but generally that utility will be glorified by beauty. The orchard is fragrant and glowing with blossoms, even the thistle, which is a standing declaration of war against nearly everything but donkeys, who are said to eat it, is surmounted with a crown of glory. In the depths of the sea, shell and the coral bespeak beauty in a thousand forms. The taste for decoration and elegance which is manifest in a thousand ways of dress, and houses, and furniture, and with almost everything that has a utilitarian purpose, must be crowned with ornament. Ideality enjoys beauty of thought, of motion, of language, and of colors; co-ordinating as it does with the faculties which produce these results, it tends to beautify the whole. Without Ideality a man's language may be logical, but it will be as dry and as sharp as a last year's chesnut-burr. We find strength in straight lines; but the curved, by mechanism and art are employed to give beauty as well to articles of strength, and thus the most massive machinery will have its graceful lines and its decorative forms. Ideality seeks elegance of diction; it does not ignore logic,

It seeks the truth, but then the development is toward that group chooses a beautiful dress in which to

SUBLIMITY.

This faculty becomes a co-worker with Ideality and Constructiveness, in the tendency which it gives to enjoy and deal in that which has grandeur. One can not cross the Brooklyn bridge without feeling a peculiar inspiration of Constructiveness when he considers the combinations that go to make up that wonderful structure, and as soon as his mind has comprehended the construction, and feeling, as it were, the strength and stress of each part, and how they co-ordinate to make up the ultimate of strength and harmony of power, all at once there flashes over him a sense of the greatness of the work; if he lift his eyes to the granite towers that seem to challenge the sky and the storm, it almost takes his breath; then those long stretches of cable, sweeping from shore to shore with graceful curves; and taking the whole structure into one whole grand idea, a feeling of sublimity is awakened; the question leaps to the lips, "And has man, puny, slender, small as he is, done this majestic work, wrought out this mighty plan to span the stream?" If one sailing up the harbor gets a good view of the bridge two miles away it looks like a delicate, slender structure, and the sustaining cords which attach the road-way to the cables, that seem large and strong when one is present, dwindle into thin, almost spider web lines in the distance, and then Ideality takes it as a picture of beauty, harmony, elegance, and even deli-

Men in whom this faculty of Sublimity is strongly marked, especially if Firmness, Self-esteem, Combativeness, and Destructiveness are well marked, enjoy grappling with great works like the Brooklyn bridge, the tunnelling of mountains, making aqueducts, rending of rocks, and lifting ponderous weights, and building structures that are marvels of bulk and power; while a man with large Ideality, Constructiveness and a Mental temperament, with

but medium Firmness and Self-esteem and Sublimity, and the organs of force moderate, will dwell with delight on the little, the ornamental, the delicate; he will enjoy working at jewelry, at fine engraving, and the lighter kinds of mechanism.

A man was under our hands for examination; we found in him a combination which indicated a desire to do something startling, large, brave, peculiar, and we described him as fond of engineering, blasting rocks, tunneling mountains, anything that would furnish an outlet for force, and that grasp of spirit which seeks to master the ponderous and the resistant. When we had finished the examination, we asked the name to attach it to the written statement, and he looked up with a puzzled, queer expression, and answered "John Smith"; we entered it on our book of record as "John Smith" to be attached to the statement, and then inquired where we should send the document by mail, and he said "I will call for it;" and at the time appointed when it should be done he came in, read it carefully, and found that all the statements were faithfully copied, and looking up with a smile said, "My name is not John Smith. I gave you that name because my name is peculiar, and you would have remembered having heard of it, and I did not wish you to hear until I had got the full report copied and in my hand, and I wished to get the statement without any inkling on your part as to my name and career." He then said, "My name is Sutro, the maker of the Sutro tunnel so called, which drained the great Comstock mine near Virginia City, Nevada."

Readers who may not be familiar with the matter, will understand when we say that the mine had been sunken into the mountain to a very great depth, and the water came into it so rapidly that it cost too much to pump it, besides the heat in the mine had become very oppressive and it was difficult to ventilate it, and they were about abandoning one of the richest mines the history of the West had revealed. Of course it was talked about, and while engineers did not solve the

problem, a man in San Francisco, whose pursuit and occupation was that of a tailor, studied up the subject, quietly stepped from the board, and commenced at the base of the mountain, ran a tunnel in on a slightly upward grade, and tapped the great mine, allowing the water to flow out, permitting the air to work its way in and ventilate the shaft and the works, and thus furnished a channel for a railway to bring out the material from the mine, without the labor of lifting it to the mountain top, and this man was Adolph Sutro. He had in his organization the tastes which belong to such engineering, and when the want of such a work came to his knowledge, his Constructiveness, Sublimity, Combativeness, Destructiveness, Firmness, Self-esteem, and Hope, with large perceptive power, combined to bring out the result; he was an engineer and did not know it, but common engi-



Fig. 139. Lieut. James B. Lockwood, the Arctic Explorer. Sublimity and Ideality Large. He went nearer the North Polethan any other man.

neering would not have aroused him, would not have developed such activity in his strong faculties, but he could see a million of money for himself, and such prosperity for the interests involved, as to make his own reward sure, and he made a single bound from the tailor's bench to successful engineering. It was said of Roger Sherman, that he laid aside his shoemaker's apron and signed the Declaration of Independence; the shoemaker's bench contained a statesman, and the fatherhood of an eminent posterity, and the occasion called him out.

IMITATION.

This faculty seems to be a modifier, it works in every direction; it teaches us to imitate in the way of art and mechanism, in the way of manners and habits, whether religious, æsthetical, intellectual, social

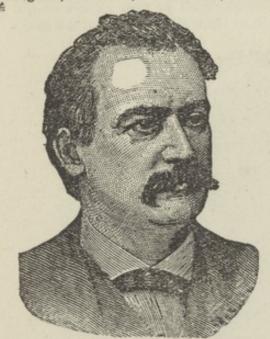


Fig. 140. GEN. J. A. MARTIN, IMITATION LARGE, or selfish; if a child sees selfishness manifested by his seniors or his equals, he repeats it; and if good manners are exhibited Imitation leads it to conformity. The little rag pickers in the gutters of Paris speak and act with the politeness of well-bred superiors. A girl eight years of age will call one of seven "Madamoiselle," and the seven-year-old child will speak to the one who has the good fortune to be her senior as "Madame"; of course this is an imitation, but it is an excellent thing to imitate. As Imitation leads to conformity, the tendency to copy is a wonderful educator of the young and of the uncultured, and if we have Veneration enough to respect our seniors, if we have taste enough to appreciate their superior culture. Imitation inspires us with the idea of doing likewise, then we get the come more into the socialities and the

usages and habits of those who may be superior to us; in fact Imitation enables people one step below to form an alliance with those above them, and thus it becomes an elevator; it sometimes is servile and ridiculous, nevertheless it points in the right direction, and is, on the whole, a blessing.

THE PERCEPTIVE ORGANS.

The organs of Perception are located above the eyes, and occupy in the brain the convolutions of the base and anterior part of the frontal lobe, and constitute about one-third of the depth of the fore-head, beginning at the arch of the eye. These bring us into relation with the external world, and enable us to recognize the conditions and qualities and peculiarities of matter. This group of faculties when strong give practical judgment, business talent, and common sense, and when we analyze their action, we will see the value of their separate as well as their combined action.

INDIVIDUALITY.

This organ takes cognizance of things as things, without any regard to their form, density, magnitude, or color. If one takes up a handful of pebbles and sand, each grain of sand and each pebble is an individual thing apart from other things. It has been said that Individuality recognizes the "thingness of things," the quality of being something, no matter what, whether a grape, or leaf, a twig, an insect, an ox; it is a something separate and distinct from other things which we can see, feel, conceive, or imagine.

Those in whom this quality is strongly marked, are quick to notice everything that is presented to the eye; and it goes farther, and enables us to recognize that which we touch, or sounds that we hear. The rattling strokes of a drum are distinct noises, and each is an individuality.

idea of doing likewise, then we get the approval of Approbativeness, and we see a great many things, and do not stop come more into the socialities and the to study the nature and quality of things blessings and immunities which they they observe. For instance, if there are bring, by a successful imitation of the many pictures on a wall, they are to such

persons so many individualities, whether portraits or flowers or animals or land-scapes or insects; and we have seen persons go from one end of a room to the other, thus filled with pictures, and apparently not study any one, except to see that it was not the one they had just before seen.

This faculty co-operates with others in calling attention to that which may be beautiful or valuable or useful. An uncut diamond and a bit of quartz in a heap of sand might look very much alike, and Individuality would see the two as things without regard to their relative or real value; but if other faculties of this group



Fig. 140. SIR J. A. MACDONALD. PERCEPTIVE ORGANS LARGE.

will thus sit all day to see rocks and stones and trees and cattle and the same things repeated. To a person of artistic taste, the scenes that are thus devoured by the mere observer are regarded as well for their beauty. Occasionally an artistic person will see a vista, a natural picture, that would look well on canvas; he sees combinations of beauty, but a mere observer might think it uninteresting. A child will pick up chips and bits of cloth and buttons and pebbles and have a basketful of those (to him) precious things, without doing more than to pass them over and look at each one without any apparent study of its uses or qualities; he would call the collection "A mess of things."

In traveling, a person with large Individuality desires to sit by the window, and the observed articles, new and beautiful will thus sit all day to see rocks and stones recognitions of quality might be seen.

FORM.

Form is located between the eyeballs, and, when it is large, pushes them asunder; in anatomical parlance, it is in a convolution of brain, located on each side of the "crista galli," on the plate of the ethmoid bone, directly back of the nose, and the width between the eyes is the indication of its development. Everything has Form, and that is the second quality which we recognize. First, that the thing exists; this comes from the faculty of Individuality. Form next considers it, and it is of some shape. No two grains of sand will be found of the sene

This faculty remembers countenances. smaller to the lowest grade It aids in drawing, copying, sketching, shaping things by the eye. Persons who are cutters of clothing or boots, or who are skilled in ornamental decoration, need this faculty. Form can be wrought out by rule; we can strike a circle with a compass; we can make a square, triangle, oblong, or a cylinder, with instruments;



Frg. 142. HARRIET HOSMER, Sculptor. FORM, SIZE, WEIGHT, AND ORDER LARGE.

but whatever the form, this faculty judges it, and aids in the production of it, especially if it be done without instruments. The man who takes a piece of chalk at the blackboard and tries to draw a circle, will see that he has more or less facility. Some would draw a circle almost equal to instruments. Let a man try to make a square or triangle without measuring, and he will see his facility or lack of it. In penmanship, as in other kinds of drawing, Form is useful.

SIZE.

The next organ out toward the external angle of the eye-brow is that of Size, which enables the observer to measure magnitude and distance. Two articles may be of the same form, yet of very different size. In sportsmen's shot we have a birdshot and a buckshot, and grades running all the way through. The form

shape; no two leaves on a spray are of of each satisfies the faculty of Form, but such shape as to be identical; hence the the faculty of Size is required to detect faculty of Form recognizes the difference. the difference between the larger and the

WEIGHT.

The next organ is Weight, which is located above the inner part of the eyeball, across the ridge of the brow, rising somewhat above it. This enables us to recognize the law of gravitation, as it acts upon objects which we lift, or as it acts upon our own persons. The design of the faculty seems to be primarily to aid us to keep our own balance, and in perceiving and obeying the law of gravitation. Those in whom it is best developed walk with less surging, with more grace, and a better balance; they dance with more ease, they work at anything with more harmony and a better adjustment of force than those in whom the organ is less developed. In the process of intoxication, the faculty of Weight seems to be chiefly disturbed. Men sometimes see double, it is said; that is, doubtless, a disturbance of the organ of Individuality. Men who are expert in handling a rifle, or who can play billiards with skill, or balance on horseback, or on the trapeze or the tight or slack rope, must be prominent in this faculty. Blondin, who crossed the Niagara river on a rope, had the organ very large, and it was noticeable in his photograph.

COLOR.

See Rubens, Fig. 138.

Color is located on the brow almost dlrectly above the eyeball, or over the outer half of the eyeball, and gives an upward and forward arching of the brows. Those in whom it is large and active experience great pleasure in studying colors, and are adapted to become colorists or painters or dyers, and know when the right shade is attained. Persons who are in variety stores, and those engaged in millinery or in the manufacture or sale of dry goods, should have the organ large. The world of beauty, as evinced through the myriad shades of color, is rich in its manifestations of enjoyment to those who have the organ large.

In our large public parks the landscape gardeners have studied and arranged the mere color (green) in the foliage of the trees in such a way that a man can stand at one end of a drive and have twenty-five or thirty shades of green under the eye at once. There will be trees, the dark shade of whose green borders on the black, as seen contrasted with the very light green of another tree; so all imaginable shades of green are thus represented, and in driving for miles hardly two shades of green can be seen alike at a given sweep of the eye. Then the realm of flowers and fruits and shells and the plumage of birds opens a world of enjoyment to one who is well endowed with Color.

ORDER.

Order is the next organ in the range, and almost explains itself; its very name tells what it is for, and those who have it well-developed will feel and appreciate it without remark.



Fig. 143. RICHELIEU. ORDER AND CALCULATION LARGE.

There is as much difference in people in respect to order as in respect to color. Some are satisfied to have everything mixed; all they want to know is that the article is in the drawer or bag or basket, and they will mine for it; another will have all things fixed—a place for each thing and expect to find it there.

A venerable gentleman of Philadelphia whom we knew, named Townsend Sharpless, was a merchant, but he had a tool shop where implements were kept, and he arranged them according to his idea of propriety, had them hung on the walls so as to occupy all the space, and then he employed a painter to paint the form of each tool as its shadow would be cast on the wall when it was hung in its proper place—then, no matter who took down a tool, he would always know by the picture of it where to hang it when returned.

Those in whom this is well developed can find their books in the library, their dishes in the pantry, their things in the drawer, and if called suddenly in the night-time will go to any drawer or pantry, and with very little trouble lay their hand on the article required. They have a systematic way of laying off their clothes at night; always do it in the same manner, and put them in the same places. In short, everything they do is systemized, and people learn what their custom and rule is, and do not need to violate it, to the annoyance of the master or mistress or friends. We know persons who, if another came to their desk in their absence and took a pen, an eraser, a paper-knife, or a bottle of gum for a minute's use and purposely tried to put it back the same as it was found, the owner would know on returning that it was not put just where and how it was kept.

If the faculty of order were abrogated in a whole community, as it seems sometimes to be in one person, it would make a great disturbance; and when we think of the wonderful order that is kept in nature, especially in the motions of the planetary world, it would seem that "order is heaven's first law" indeed.

CALCULATION.

Calculation relates to numbers or to numerical calculation—it is the multiplication of individualities. A handful of sand is recognized by Individuality as being a congregation of units, and Calculation undertakes the process of numerating the units and finding out the number; dis-

ematics.

Some people are counting constantly. We have just received a letter, in which a lady is described as having a mania-at least, a persistent habit of counting things; but she counts five, and then five more, and asks how she can get rid of the tendency. There are others beside her who have a passion for numeration. of a whole evening's knitting; she could not knit without counting the stitches, or she felt lost if she did. Others count the steps from one place to another.

One man would say it is four hundred or eight hundred steps from the house of A. to that of B; another counts the steps that enter a house; or that go from one story to another, and knows every flight of stairs in the house in respect to its numbers and also the numbers pertaining to the stairs of neighbors' houses. Another will count his inspirations of breath in walking or riding from one place to another place. Numbering the times that we step or breathe seems to cut the distance up or shorten it.

THE SEMI-PERCEPTIVE OR LITERARY FACULTIES.

Those are Locality, Eventuality, Time, Tune, and Language; they have an intimate relation to the perceptive organs proper, which have to do with the existence and quality of things. If there be individualities, and those have form, size, weight, color, order and number they must have a place, a situation, they must have relative positions, and Locality takes that fact into account, if there be any occasion, in connection with things; if any effort be made in the way of force, Eventuality which is the natural historian of the mind, takes into account transactions.

cerns that two are more than one, and curs at some place, it must be at some three more than two, and so on to the end; time, and the faculty called Time is preit is an element of course, in accounts, sent to take note; and when a man tells and the basis of the great science of math- an anecdote, and tells when it happened, and where it happened; if he describes the forms, and qualities, and peculiarities of the factors which entered into the transaction, all the perceptive and semi-perceptive faculties may be brought into use. Time has to do with periodicity, as Eventuality has to do with occurrences, and Locality with places. Time is also co-ordinate with Tune, and with Language; the We knew a lady who counted the stitches musician, the public speaker, the conversationist need both Tune and Time.



Fig. 144. ADELINE D. T. WHITNEY, a fine writer of prose and poetry. See also Figs. 19, 26, 29, 33, 35, 70, 95, 109, 117.

We sometimes hear speakers that will rattle on their words, and pile them in heaps, blend them together, so that it is extremely difficult to understand; while others, whose Time and Tune are well marked, with perhaps strong Individuality and Number, or Calculation, will enunciate with definiteness; they will articulate their syllables and words in such a The part of speech called the verb, is the way that there is no confusion to the quality which belongs to action or doing, is sounds, and such a speaker may be heard recognized by the faculty which takes ac- with very little effort on his part, to the count of events, and when an event oc- remotest corner of the auditorium, while

girl, during our temporary absence, and to the inheritance had made it perfect.

LANGUAGE.

LANGUAGE combines with all the faculties; its nature is to give expression by words; we sometimes widen the thought to that of pantomimeaction as well as utterance.

There is no doubt that animals can talk to each other, they express their wants and wishes, they negotiate and form plans, and some of these are so significant, it would seem as if they could also use the power of reasoning to a considerable extent. As an incident illustrating the conversational ability of animals, we may refer to an anecdote which recently appeared in one of the London magazines, written by a clergyman. It was this:

another will rasp his hearers with his lows builded their nest. The recess had strained voice, but there is a husky mix- considerable depth, with one opening: ing of words and syllables, to an extent they went back perhaps a foot under the that makes it difficult for persons not far cover and got their nest completed, and from him to hear distinctly what he says. they flew away for a kind of 'honeymoon' In colloquial discourse it is not uncommon previous to setting up housekeeping. to hear people utter sentences as one Meantime a pair of sparrows came, and might throw a shovel of coal, all in a heap, took possession of the nest, and when the and one must know the voice well, and swallows returned, and the time had also what kind of answer is to be expected, almost arrived for the first egg to be dein order to make it out. We remember a posited, the birds that owned the nest, clerical friend, who was a marvel of dis- were astonished and annoyed and angered tinctness of utterance, and he came into to think that their handiwork, their home, our office and left a little four-year-old their nest, had been stolen; they flew about and scolded, and the sparrows sat went out; on coming in the writer said there, and would bite at the owners of the something to the child, and she answered nest when they approached too near. The with such peculiar distinctness and preci- swallows, seeing that they were not able sion of tone and utterance that it instantly to contest the matter with an equal number reminded us whose child she must be. of sparrows, flew away, and in half an We then inquired, "How many brothers hour came back with a dozen others, and and sisters have you?" Her reply was then the battle began, but the swallows "There-are-three-of-them"; and the were poor fighters, and the sparrows being incident was exceedingly interesting and the pugilists of the air, on a small scale, amusing, the exact repetition of the were able to hold the nest. The flock of father's style of expression and distinct- swallows retired, as if abandoning the nest, mess of utterance, was an evidence of the but in a short time swallows were coming law of inheritance, and also of the law of in from every direction in squads, until training; she had inherited the tendency there were hundreds of them, and they to speak distinctly, and the example added did not attempt to drive the trespassers away, but they began to bring mud, and four or five swallows, acting as masons, built up a wall in front of the nest, shutting in completely the sparrows with their stolen nest, and hermetically sealed it in a very few minutes; while fifty swallows were bringing mud, the few that could work at it were piling it in the wall, and then the sparrows and the nest being disposed of, utterly imprisoned, the swallows brought material and built and finished a nest in front of the mud wall, and yet under cover of the building, and the same day, or the next day, a swallow's egg was deposited." The truth is, the bird wanted her nest for the purposes for which she had built it, and the other swallows knew it, and they helped her out of the trouble, and executed capital punishment upon the "Within sight of his window, connected invaders. There is another story, of a with the wing of the dwelling, there was dog that, following his master's wagon to a narrow recess in which a pair of swal- the market town, had been assaulted and

came bounding down the lawn, and without just cause had severely punished the passing stranger. The small dog was too much injured to follow his master, and made his way home two or three miles back. In the course of a week or two, he had become so far recovered that he could sally forth again, and it would seem that he had communicated his mishap to all the dogs in the neighborhood, and one morning when the master started for market, our little maltreated dog, with five or six others that were larger, and one bouncer, equal to his enemy in size and strength, started with him, and thus they trotted along, and they must have had a signal agreed upon, as Judas did when he said "Whomsoever I shall kiss, that same is he, hold him fast," and when they reached the farm where the old battle had been fought, the flock of dogs had been left a little distance behind; the big dog came out to repeat his cruelty, and the little fellow pitched into him as if he were able to give him battle. The crowd of dogs that came there to avenge the insult and injury, pounced upon the invader and left him dead; his big antagonist had taken him by the throat, while the other dogs had belabored him until his breath was gone, and then all the helpers turned about and trotted back to the place where they came from, and the little dog hurried on uninjured, rejoicing in the retribution, and overtook his master.

Articulate speech belongs to the human race, though parrots and some other birds learn of men to speak; but the chattering of geese, and ducks, and sparrows, and other birds is doubtless articulate to the ears that are native to it; they understand each other as we understand ourselves; their language doubtless being simple, according to the instincts and talents and wants and dispositions that constitute their mental life.

If any one of the perceptive or semiperceptive organs be comparatively weak while the others are strong, there is a de-

severely whipped by a big mastiff that speech; another is redundant in speech, and not very strong in the philosophic side of the mind; he talks much and says little. Where all these organs are of equal and large development, a person will take in all the shades and peculiarities of things and life and action, and if endowed with good Language will be able to express in a clear, full and efficient manner all the facts, their shadings and blendings, which he has been able to comprehend.

THE REASONING ORGANS.

These are Causality and Comparison, the first gives a logical tendency, the ability to plan and understand causes and effects. There are those who have wonderful practical perception, but not so much of what should be called intellectual grasp, or comprehensiveness of thought; they



PROF. H. A. NEWTON, of Yale, Fig. 145.

President of the Scientific Association. A fine Mental-Motive temperament. We notice that the head is lifted upward and forward, so that from the opening of the ear to where the hair joins the forehead, the length is great; his knowle ige of character, power of criticism, ability to think and make sharp analysis is his forte.

perceive the outward things; doubtless a dog sees as well as his master does all that comes within his range of vision, but he does not see it in the light of higher ficiency in the manifestation; many a per- logic, or in the light of art as men do; son is rich in knowledge, but weak in some men will gather history, acquire information, learn all the practical details from the beginning, and from things preof business, and yet can not conduct a sent reach back to their origin. business, can not see beyond the reach of their eye; while, with large Causality, a gives the power of analysis, while Causal-

Comparison, working with Causality,



Fig. 146. Adelina Patti. Human Nature, Agreeableness, and the Reasoning Organs Large.

man will close his eyes, will see into the ity gives the power of synthesis; Com-

future, and study causes and consequences, parison takes the subject to pieces, and and relate himself to that which is distant studies the differences and peculiarities, in time and place and condition; he has while the reasoning powers combine to excellent common sense, and he has a put together forces, or comprehend the strong tendency to be logical, to study combination of forces. When the upper the why and wherefore, and know the end part of the forehead is largest, there is a

tendency to be abstract and heavy and what he sees in the stranger may be rethe semi-perceptives, as well as the per-

speech, will remember and utter fables, guage.

HUMAN NATURE AND AGREEABLE-NESS.

Working with the intellectual faculties, we have Human Nature and Agreeableness, though they seem to stand as a kind of arbiter between different groups of faculties. The first appreciates disposition, the upshot and make-up of a stranger, and according to the sagacity which this faculty imparts to an observer, will he relate and co-ordinate his other faculties in their treatment of strangers. If the faculty of Human Nature sees in a man a lordly, selfish, hard person, Caution, Approbativeness, Secretiveness, perhaps Benevolence and Ideality, will be awakened to the fact that the stranger needs to be rubbed the smooth way, then Agreeableness comes in to apply the remedy; if through Human Nature one sees in a stranger a person who can be dominated, who needs to be advised and expects it, who wants to be assisted in making his selection in purchasing, or deciding what it is best to do, the observer will reach a conclusion as to which method will best serve the object or occasion of their meeting; hence a his treatment of a stranger, according to will seem to be indispensable.

apparently dull; such men should relate quired. A man who travels as a canvassthemselves to persons who have large per- ing commercial agent, will have as many ceptive organs. The head of Lubbock, sides to himself in a day's work, as he Fig. 108, shows great grasp of thought, meets of different characters, and accordwhile John Stuart Mill, Fig. 111, and C. ing as the faculty under consideration E. Cady, Fig. 109, show wonderful per- exerts influence with him, in teaching him ceptive power, while Thos. Sterry Hunt, what the stranger he meets may need in Fig. 117, shows a large development of order to produce desired results, all the other faculties of his mind will seem to ceptives, and a fair development of the bend to that errand and subject, and a reasoning organs, especially Comparison. man will go "from grave to gay, from Persons with large Causality will give, lively to severe," from subservient to in their conversation, an explanation or austere, from plausible, mellow, genial, an exposition of a subject from first prin- to a spirit of advice and dictation, and ciples, while one with a predominance of succeed in every case. And there is no Comparison, will use parables, figures of fraud in this. A man is not obliged to sell to the modest, quiet man, goods at will give illustrative anecdotes, especially any other prices, or on any other terms if he have large Eventuality and Lan- than he would condescend to sell to the arrogant, lordly man; he may sell all day, on the one price system, and treat everybody alike as to the absolute facts, and yet he will tell one man how much he ought to have, and give it to him, and not overload him. He will modestly leave one lordly man to select what he wishes, and give him all he requires, and so changing with every variety of character, and this illustration may be applied in as many ways as there are different characters to be met. The man who has caliber and can do this succeeds. In fact, a man who understands men needs less force and talent to succeed.

AGREEABLENESS seems to work with all the faculties, and will serve to lubricate them and make their action acceptable, after Human Nature has taught us how the person being treated ought to be dealt with, and how to utter disagreeable truths without giving offense, and make the language and conduct welcome to others. Agreeableness tends to put honey into the voice, and a wavy ease into the gestures and the bow, and the possession of it is a fortune to a man who has a good general organization, for he can occupy places of difficulty where most men are too tart and person is silent and dignified, is modest curt to be employed, and he will make and deferential, is arrogant and stiff in himself so useful in the business that he



- 1. JAMES PARTON. S. A. M. RICE.
- 4. GENERAL WISEWELL.
- 5. EMPEROR PAUL, OF RUSSIA.
- 8. WM. M. EVARTS. 6. GEORGE RLIOT.
- 7. KING FRED'K THE STRONG. 10. OTHO THE GREAT.
- 8. PROP. GEORGE BUSH. 11. AFRICAN.
- 9. GENERAL NAPIER.

PHYSIOGNOMY,

AND THE NATURAL LANGUAGE OF THE FACULTIES

Everything, from head to feet, of form, in the brain and its connections, and as gize, and action, indicates, in some degree, the character of the individual, or state of mind and feeling in exercise for the time being. The arching or depressing of the eye-brows, the full opening or partial closing of the eye, the pursing or pouting of the lips, the firm set jaw, the elevated head, the lofty shoulders, the stiff attitude, the dignified and stately step, or the reverse of this, will impress each observer in respect to the changing moods which may exist in a given individual. A horse pricks up his ears when ears back if a motion be made that displeases him.

ural language, as shown in pantomime,

the mind forms purposes, the will is sent out to the extremities, and the external motions express the inward thought and feeling.

Habitual states of mind tend to produce habitual forms and expressions of face and body; a person who suffers pain for years, will have in the face an expression of the internal state; one who has been nurtured in gladness, though the face may not be beautiful, it will wear the sunshine of joy; one who has had care and responsibility, will come to show it in the face, he is interested or pleased, or puts his in the walk, and in the voice, as one who has been subjugated and kept subordinate will have the word humiliation written in Each of the mental organs has its nat- his features not only, but in all his movements and attitudes. It is interesting to which is exhibited by the gestures and observe an individual who is acted upon motions of the head, hands, and body. by different and contradictory influences. Children and animals read the feelings of Let the reader watch two young girls as their parents or masters by their motions they are engaged in animated conversaand attitudes, which are often more influ-tion. The speaker suits the action and ential than words. The brain is the cen- facial expression to the thought she is uttral source of motive and mental power; tering, while the listener will have a smile every action has its root or seat of impulse or a cloud flash over her face; there will

face will be lighted up with joy, pleasure, mirth, and interest, and thus her face becomes a kaleidoscope, expressive of the subject matter which is being uttered to her. Watch the speaker, and you will characters, as different as circumstances

be a frown to her brow and eye, and as and looks sour, her Combativeness and the sentence changes in its nature, the perhaps Self-esteem are excited, and when she smiles at the next breath or sentence, her Approbativeness, Benevolence, and Friendship are awakened.

In the illustration, Fig. 147, are two



Fig. 147. Submission-Authority.

ologist understands that when she frowns sternness fixed in hard keeping with the

see her mouth smiling approbatively, or could make them. He who stands erect, the lips will pout and curl in contempt or with head thrown upward and backward, anger at the very next sentence. For in- showing a large full crown as the seat of stance, we may hear her say "I don't pride and Firmness and positiveness, with like her, she is real mean," and she will his full and proudly expanded chest, with look sour and bitter for an instant, "But one hand in his embroidered coat front, Katy is real nice, I think ever so much of and the whole attitude one of dignified her," and the sunshine of pleasure pride and positiveness and severity, the wreathes her face in smiles. The phren- features meanwhile with their rugged

whole body, and the dispositions which are distinctly seen in all the form and pose of the person, combine to show him to be a man that will never be trifled with; he is the "Man of Authority" and property and standing and power, accustomed to give orders and be obeyed. His very looks are law, and if he but nod the head, or point the finger, those having less of the characteristics of power and dignity, instinctively obey his will. The "Submissive Man," whose back is half bent, whose hips look as if in an irresolute position, his knees suppliant, and his feet occupying space by permission, not by right; his down stretched arms, holding his hat, and the crown of the head at the region of Self-esteem and Firmness in striking contrast with that of the other figure; his soft and infirm face, his yielding and submissive countenance, his flabby lips and irresolute chin and cheeks, show him to be the tenant in arrears of rent, standing in the presence of his lord, or landlord, pleading excuses for his inability to pay, hardly daring to expect leniency, and fearing eviction; the plea of short crops through drought, or the destruction of crops by insects, or perhaps through too much rain, or frost early or late, avail little in the presence of such dignity and domination. The submissive man expresses in every appearance Veneration and deference, and utter lack of dignity and pride. The heads of these two figures are directly opposite in the development of Firmness and Self-esteem, and of Benevolence and Veneration.

If we could reverse their relative positions, then the tenant would stand erect and the landlord would receive him with the most gracious bow of condescension. The present landlord has the development of body and brain which belongs to or grows out of long usage in being master, while the poor tenant, owning no land, and cultivating it as it were on sufferance, is robbed of his dignity and individual selfhood; and his Veneration and Benevolence, the elements of subordination or humility are, on the contrary, strongly developed.

The contrast in the attitude of these two persons is not greater than that in the conformation of their heads, and the expression and build of their faces, an these differences of appearance are justified by the differences in their organization. Our lordly dignitary, destitute of Benevolence and Veneration, but amply provided with Self-esteem, Firmness, Destructiveness, and Combativeness, is not a man to relax his hauteur and import ance; he seems to enjoy the degradation of his subordinate. We may learn from his development of the organ of Language, which swells the lower eye-lid, that the harangue with which he rebukes the delinquent will be no less prolix than severe; the gift of speech is sometimes lavished on a man who abuses it prodigiously; others, on the contrary, have extreme taciturnity; excess in one case, defect in the other. It need hardly be said that these persons exhibit the extremes of arrogance and submissiveness. If we can imagine a just medium between these two extremes of character, we will then have no excess, but everything needful to secure efficiency, self-reliance, and avoidance of that weakness which spoils the one, and that arrogance which makes the other offensive and tyrannical.

Physiognomy, we use the term in this case in its broad sense, not meaning merely the cast of the eye, or the pout of the lip, or the length or breadth of the nose, the peculiarity of the chin, but the whole make-up, involving temperament and the general harmony of character, is a great aid in reading people as they are casually met in daily life. In discussing and estimating character by physiognomical methods, the public generally takes in the whole man; we are impressed by the harmony or want of harmony in the figure, the poise of the head or the shoulders, the hanging of the arms, the firm or shambling attitude of the legs and feet; if a man stands firmly on his pins, and is balanced on his spine as if he were not maintaining his erect position by voluntary muscular effort, but as if he were built for a harmonious well poised man,

the general impression and frequent expression is "He is a fine looking man," there is nothing to criticise, everything is so harmonious that a general commendatory remark, if anything be said, will be the result.

It is interesting to sit on a balcony, where one can watch the facial expression of half a dozen persons who are looking at the passing throng. One man comes stubbing by; he is stumpy, with short limbs, and body all the way of a bigness, a childish face, and with no point or positiveness in his whole make-up; another is tall, bent, lithe, swings as he sweeps along, and his motions natural and easy but aimless; another is tall, angular, stanch, gaunt, muscular, positive, as if he were half angry and in a hurry; and the faces one finds on the balcony will put on a new expression as each person of diverse form and motion passes. Then the strong, loud, and coarse methods of dress; some affect a finical precision, a kind of "Don't touch me" appearance; one prides himself in his neat foot and polished boot, and steps as if the earth were hardly good enough for his precious feet; another is proud of his hands or his gloves; another of his necktie; another man's central point of thought seems to be his moustache; another will nurse a long beard, and pet and coddle it, as if it were the object of his thought, and the god of his idolatry; another is fond of his hat; we know several persons who take pride in a very broad brimmed soft hat, which they wear jauntily, and have the crown run up to a point, or it is dented into Alpine spurs or other grotesque form; another cherishes a shiny silk hat, and whenever he has it in his hand, he brushes it with his sleeve, showing that he does this at home, and unconsciously does it in company, but it tells where the man's fancy is.

A young lady connected with business in New York, rides up in one of the lines of stages to her destination, and by her dress, she exemplifies a peculiar artistic taste; her hair, which is abundant and dark, is not dressed according to the prevailing style, but is divided into strips as

wide as one's finger, and tastily looped up or festooned, and, so far as has been seen, it would appear that it had been carelessly fastened without any regard to duplication, but each lock had a graceful curve on its own account; and then her hat is trimmed with pendant members, and around her neck she wears a scarf made of silk net work and long fringe, maintaining the same thought or taste, and then the jacket or short cloak is trimmed after a similar style; her reticule has trimming with the looped and tasseled swinging sort, and as she gets out of the stage and walks away she attracts the eye of people, but there is an air of ladylike grace and taste and peculiarity about the whole make-up, and the willowy swing of the person, as she gracefully walks, bears out the same idea. The writer being at least fifty years her senior, takes the liberty of observation, without feeling that it is obtrusive, or impertinent, and also without attracting attention.

There is another who rides up in the same line of stages, and her whole makeup of dress and appearance is in direct contrast with the other; her hair is massed into a solid heap, as if it were frozen, and there is a kind of fixed severity in all the outlines of her dress, her form, and of expression of face, and her walk is of the same type; she is solid, healthy, vigorous, has a firm expression of face and lips, and the general features appear about as inflexible as if they were marble, while the other lady has a face of varied expression, mobile, a little lank but very interesting; she never has a set, fixed look, while this lady's look is as fixed as if made in bronze. Now the whole contour and method of dress and taste in displaying trimmings, including the walk, we regard as manifestations of Physiognomy; an outward show of inward character.

With this prefatory thought before the reader, let us look at a few portraits.

Fig. 148, B. F. P., is nearly six feet high, and well proportioned; he has a calm, self-satisfied face, seems impressed with his own dignity and worth, moves among men as if he had no favors to ask, and was under no compliment to any- ologist will recognize Firmness, Self-es-

body; he seems to have no doubt of his teem, Approbativeness, Cautiousness, and being acceptable and welcome wherever Ideality; there is no special expression of he chooses to go, and takes no second talent; good sense and judgment are all place. He evidently takes much pride in that can be predicated of the face; we see

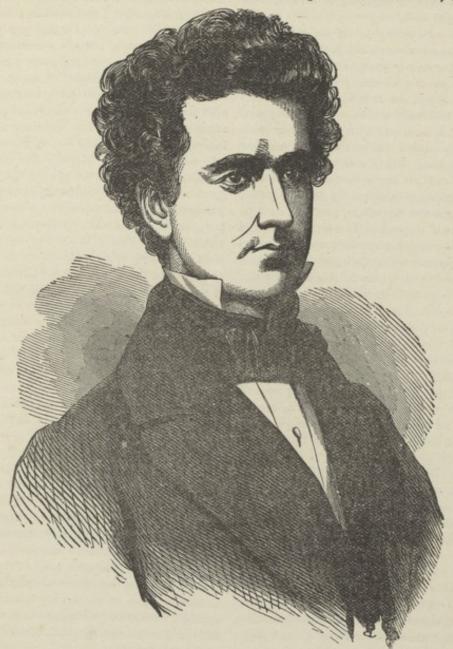


Fig. 148. B. F. P. HARMONIOUS ORGANIZATION.

his hair, and well he may, for it is very no look of tyranny, no tendency to lord it and quiet defiance of attitude, the phren- many warm friends.

nice; he is handsome, and is relieved over others, but a desire to be admired from any embarrassment which singular by respectable people and especially by and inharmonious features impose; in the ladies. Such an organization enjoys that face and build of body, that erect life, and is likely to have and deserve conspicuous figure at Knoxville, Tenn., plucky, and willing to oppose openly all for many years as preacher, editor, politi- that he disapproved; he seemed to take cious expression of face, the nose and the nence, especially if they were deemed imlips, the chin and the broad cheek bone, portant, and more especially if he knew

Fig. 149, Parson Brownlow, was a most him to be honest, and knew him to be cian, and aggressive critic; what auda- delight in pushing his views into promi-



Fig. 149. PARSON BROWNLOW, OF Tennessee.

wide jaw, and the fullness of the lower they would meet with the hottest opposipart of the brow, as well as the broadness of the head, spell out the literature of audacity and courage. In that face we see no duplicity, but aggressive courage. In his day and time he was a thorn in the flesh of all who, as he deemed it, opposed that which was right; he was a man of wonderful daring, would utter language from the stump, that no other gressive and defiant, and each seemed to man of his time could utter and carry off take delight in acting upon public sentihis head unharmed. Everybody believed ment, as the coulter acts upon the soil in

Parson Brownlow and Wendell Phillips were as far apart in their exterior form and manner, and in their style of utterance, as two men could well be, and at the same time they possessed certain traits in common; both were honest, both courageous to the last degree, both ag-

advance of the plowshare, which goes of himself. We have seen him stand on to turn over the tough soil.

as true as steel to his convictions; Brown-

ahead and cuts the turf and severs the a platform in New York, making a speech roots, and makes it easy for the plowshare to people who differed from him in opinion about the subject of slavery; he ut-Phillips was refined, polished, scholarly, tered a polished, bitter, and scathing senpungent, analytical, definite, honest, and tence, which called out roars of applause, and an avalanche of hisses; he stood low was noisy, broad in his statements, quietly with one arm behind his back, sincere in his convictions, and defiant with his pale intellectual face, and his eye



Fig. 150. WENDELL PHILLIPS, THE SILVER-TONGUE ORATOR.

towards the opposing crowd; he lost his glittering with apparent joy, that he speak aloud, and he said he was deter-

he has a broad, strong chin, and therefore were stung to the quick, for their part in

voice at one time, so that he could hardly could stir up the elements, and when the applause and hisses that alternated till mined to "die game," and if he "could all were tired, had died down, he reiternot talk he could at least make faces at ated the same statement in a calm and the Abolitionists and the loco-focos," he level voice which had called down the being what was called a Whig, and we storm, and then it roared again; when it think editing a paper called the Knoxville ceased, he uttered it the third time; there were fewer hisses, when that ceased he Let us look at the portrait o. Wendell uttered it again, and went on, and if ever Phillips; the face was classical, the fea- an audience was flayed alive, if ever potures were handsome, even in old age; litical parties and theological institutions unlike Brownlow, always had command the subject of slaverw which he was devet he was not boisterous, his thin hand, the lecture, and although Phillips vigodelicate features, and slender form did rously, without modification or without not provoke muscular opposition. If the palliation, scathed the subject of slavery, burly Brownlow had stood there, and ut- the Tennessean accepted it, recognized tered similar words, there would have its logic, and believed in it in the abstract. been a riot.

combined with talent and integrity; Phil- with a gentleman who happened to be at



Fig. 151. THE RIOTOUS REGULATOR.

lips did not appeal to the muscular element, never manifesting anything that would excite it, but his polished invective, his vivid arguments, and his scathing condemnation of immoralities as he viewed them, made him a power unequalled in his time during the great excitement of abolitionism.

Phillips was invited to lecture in Cleveland, Ohio, and by a strange and singular "Oliver Wendell Phillips" will address a

nouncing, then and there was it done; and a gentleman from Tennessee heard He started on the Cincinnati train the Brownlow had muscular Christianity, next morning, and fell into conversation

> the lecture and remembered having seen the Tennesseean there; and he asked him how he liked the lecture, and he replied, "Admirably; it was God's truth," and added, "Now, if your Garrisons and Phillipses and Beechers would talk as that man did, there would be no just occasion to criticise." And when he was informed that the man he had heard was Phillips himself, though he had the Oliver Wendell as a prefix to his name on the hand-bills, the Tennessean said "Never mind, I won't take back what I have said, I stand by it." The truth is, Phillips had a wonderful method of making that which he said seem to be right, and men had to get away from the place before their previous notions would come back and oust the influence which the discourse had awakened in their minds.

Fig. 151 is also a man of might, but employs different methods from the others in expressing his opinions. When Phillips and Brownlow were excited it set their tongues running, it awakened the intellect, and the moral feeling. When the person under consideration was excited, he stopped talking, and began to use his muscle and his club; in the field of rioting he was master; he had courage, blunder, the association which invited but it was rough; he had opinions, but him posted the town with bills headed they were expressed by blows, and addressed to the physical consciousness of meeting at such a place, mixing the name his opponents. Every feature of this of the "Autocrat of the breakfast table," man; the very form of his hat brim, the with that of the autocrat of abolitionism; grip of his hand upon his stick, the length

of his upper lip, the rough outlines of his face, all mean power, but power in the rougher form, power governed by the base of the brain, not by the top.

Both Phillips and Brownlow have met such men as the man with the club, Fig. 151, have seen audiences where there were perhaps hundreds, ready to wield their force in a muscular way, and though they might howl and threaten they rarely advanced to the conflict; they would expect Brownlow to meet them on the same terms; Phillips did not so much excite the muscles or the passions that find vent and moral sentiment, and his sympathy a through the muscles, as he did the intel- factor of unregulated power; while Phillectual and moral powers.



Fig. 152. John Wesley.

John Wesley is another man of mark; the battle he fought was against the wickedness of his time, and often led to noise and riot, but his weapons were of the religious type. His features express decision, positiveness, thorough conviction of the righteousness of his cause, while his large Benevolence, and strong religious feelings, would carry to the hearer assurance that he believed himself in the right.

Here is a fine temperament, sensitive

life and experience, braced up by that which is courageous, conscientious, steadfast, and intellectual; the words sincerity, goodness, and intelligent interest in humanity, express much that may be seen in his face, and in the whole contour of the head and body.

There are those who stride forth into the world of effort, and every motion seems a challenge, every attitude a menace to their opponent; Brownlow has something of that appearance. Fig. 151 is a muscular menace, blind to reason and lips and Wesley appealed to the better sentiments of human nature.



Fig. 153. HEALTH AND COMFORT.

What shall we say of the physiognomy, of the general make-up, also of the Phrenology, the temperament, and conconstitution of Fig. 153? He looks comfortable, as if he owed no man anything, and as if he had "much goods laid up for many years," or an income that would supply food and raiment, rest and recreation, and all that the physical man needs without anxiety and without effort; a picture of health physically considered, but no expression of the face which means much; he looks as if he had no special purpose to accomplish, and as if he had never done anything that gave him much to all that is tender and rich in human anxiety or much pride; his eye is open,

indicating frankness, but not expressing culture or definite opinions.

There is enough of forehead to indicate fair talent, but it does not seem to have been much exercised. His head is broad enough above and about the ears, to give him a fair degree of force, if there were anything to call for it, but he does not look as if he would take much interest in that which should happen to be the bottom dog in the fight; he would say "They have begun it, let them fight it out; neither dog belongs to me."

His development of the superior sentiments would keep him from being suspected of anything detrimental to good morals; he would be more likely to become voluptuous in appetite, and in the pleasures of sense, than he would to do anything offensive to good order in an overt and noisy way.

If we study the faces of Phillips, Brownlow, Wesley, and of our muscular friend, Fig. 151, we shall see expression in all but when we come to Fig. 153, it is difficult to say what definite expression he has, except a good-natured contentment, without an object for endeavor, or any special purpose in life but to have a good time without much effort.

Fig. 154 is an expressive countenance; we may say an open face, an animal face without vicious inclination; his heavy cheek, especially the lower part of it, indicates that the dinner bell rather than the church bell calls him to his devotions; that he loves to eat, that he enjoys nearly everything that is eatable, especially if there is enough of it. Alimentiveness, in phrenological language, would seem to be his forte, that he would meditate on the probabilities and desirabilities respecting dinner, as soon as he had finished his breakfast; would know the lore of the dining-room, more than of the library or the church.

We have seen some men of whom his head and face remind us in a meat market, and if there is anything in the way of work that he would do with a gusto, it would be farming out the roasting pieces in a quarter of beef; he would know

where the tender steaks could be found; he would understand the best cuts, and be ready to cut them; he would charge a high price, and do it with the utmost sang froid; he would never blush if he were caught in making wrong change or wrong



Fig. 154. An Open Face.

weight, he would simply laugh, and correct the error and seem to do it in all innocency.

That is a one story head, the talent is practical, so far as it goes; he is energetic, strong in muscle, willing to use it. when he has anything to do; he will square off and spar with his best friend. If he had sufficient intelligence, he would make a capital cook; he would prefer to be the lord of the larder, than to be very far removed from his base of supplies. He would be fond of horses and dogs and dinner, and when not annoyed, one of the best natured men in the world, for he is physically comfortable, and relishes life through the physical senses admirably. This man represents a class whose brain is mostly in the base; they are "of the earth earthy," live for the body and the pleasures of physical sense solely; generally get, if they have a good chance, only enough of education to write their names, and poorly at that; they deride all that is religious or spiritual, and pursue anything that will gain for them food and fun.

In portrait 155, we have the expression see that chin, how full of meaning and deof strength, earnestness, persistency, posi- cision; the elements of love are strongly tiveness, intelligence, integrity, and mag- manifested there, as well as resolution and nanimity; unlike Fig. 153, though his eye power. There is in that cheek, especially is wide open, hers means something; the in the corner of the mouth, the indication



Fig. 155. ELIZABETH NEY, German Sculptor.

features are regular, but they are full of of delicacy and refinement, combined with power; compare that nose with Fig. 153, the lines of which may be more classical, more elegant, but how deficient in character; the nose of Fig. 155 means "Clear the track for I am coming," "I am in earnest," "I will not compromise," "I will not extenuate," "I will be heard." Compare the lips with those of Fig. 148 or Fig. 153, and see the world of character by contrast; they carry resolution, head and face, and every expression and

strength; look at the pose of that head, defiant, determined, ambitious, proud, positive; how firm the neck! the breadth and strength of the shoulders, how imposing! What an intelligent forehead, prominent in the lower region, indicating method, discrimination, practical talent; memory, power of analysis, and knowledge of character. That is a dramatic determination, affection, ardor, strength; attitude means power and purpose.

the head seems to be large and well ment and endeavor, it would have made a poised, the forehead massive and thought- marked difference in her expression of ful; the gathering and holding power is face, as well as in her character; a woman represented, rather than the power to ex- surrounded as she has been, is more gen-

Portrait 156 indicates reserve power; thus opened before her a life of achieve-



Fig. 156. GRAND DUCHESS MARIE ALEXANDROVNA, OF RUSSIA.

press it; in that face we see prudence, steadfastness, breadth of life, not so much activity and animation, as power to act under circumstances of pressure and importance. There is in the nose and lips, and outline of the face, and expression of the forehead and eyes, and in the ears, indication of refinement, culture, taste, and discrimination. Her cultivation has tended to prune and guide, and perhaps consolidate, but at the same time suppress the strong outward workings of her efficient nature; if she had been a man, and had received a military education, and had erally like a pruned hedge than like the luxuriant growth of the thorn bushes that constitute it; but the face is handsome, refined, and massive; the head is broad, strong, comprehensive, with solid talent and character.

Fig. 157 has a fine expression of face, rather harmonious, indicating substantial characteristics, definiteness of purpose, but not much aggressiveness; there is the basis of good scholarship, sound sense, strong moral feeling, great dignity, firmness, and self-possession, with decided force of character, but held under restraint

by cultivation and strong moral power. in his face; see what refinement of mouth ear, in the region of the crown, where el- tures see the strength of Brownlow or ements of prudence, reputation, integ- Phillips or Wesley, and what a contrast rity, steadfastness, and dignity are prom- between his features and those of Fig. inently manifested.

The head rises high, upward from the and nose and eyes; we do not in his fea-151. In Neal, logic, criticism, wit, taste,



Fig. 157. MISS A. ARNOLD.



Fig. 158. JOSEPH C. NEAL.

little, and his head measured twenty-three

Fig. 158, Joseph C. Neal, a natural wit, poetic refinement, imagination, and symphilosopher, and poet; he never weighed pathy were the law of his life. He was a more than 115 pounds, sixty pounds too writer for the press in Philadelphia, and said the wittiest things of his time. His great brain wore out the weak body with which it was allied, and he went early to the grave, one of the most delicate and sensitive of men.

Fig. 159, and those of the silhouette sort which follow, give vivid illustration of the effect of mere outline. Where the writer sits in his office, he sees at a long distance the front door, which opens on Broadway, and when people come in, the light in the early part of the day is mainly delivered upon the back of those who enter, thus leaving their faces in entire shadow; nevertheless he has learned to know every person he is acquainted with, inches; he had the delicacy of girlhood by the mere outline of the body, accomwhich motion supplies.

Imagine a picture cut out of black paper, representing the outline of a friend, in full front or back view, of course no feature of the face appearing.



Fig. 159. SILHOUETTE.

and it will be interesting to consider how perfect the impression will be, as to the identity of the person and his peculiarities; in point of fact we see people's faces more in the profile than we do in direct front view for when we are listening to the conversation of two who are facing each other, they present their side view to the spectator, and we can with propriety look at an individual while his face is turned at right angles from ours, and gaze at the features until every line of the profile becomes thoroughly impressed on the memory; but when the person turns and faces us, we either look directly in his eyes or else avert the eye. Thus we look at our friends ten times more in profile than in full face, where there are half a dozen in a company, for people do not feel at liberty to stare squarely in one's face and study the features. Now in Fig, 159 we see the high crown of head, the dignity and determination which that evinces; we see the length of forehead from the ear, showing intelligence; we see the fullness of the lower part of the common observer may acquire some skill;

panied, of course, by some indications forehead, indicating practical talent; we see the dignity, the steadfastness, the aggressiveness of the nose; we see the protruding lip, indicating affection and sympathy, and the prominent chin evincing affection, and any one would be prepared to lift his hat if he met such a face and

Contrast that with Fig. 160, that chunky, stubbed head; high enough, to be sure, but short from the ear forward; a snubbed nose with Celestial tendencies, indicating neither culture nor intelligence; and such a voluptuous lip; a mouth without expression, except of animalism and sneering contempt; the chin with no definite relation to the rest of the face, except its clumsy awkwardness; and a big short neck without lines of grace, beauty, or strength. In some out of the way neighborhood, or by-lane, we have met with such a face; we have seen it in a little obscure shop selling salt, molasses, cider, and stronger drinks; the impression



Fig. 160. SNUB NOSE.

it makes is one that is far from elevating: we feel at once that we are in the presence of a man whose life, like his character, is swinish; the yearnings and aspirations for the higher and nobler, if he have them, are but fleeting and speculative; the present, with its enjoyments, and all the sensual gratification that he can obtain from it, is enough for him.

In the study of outlines or profiles, the

the readiness with which they may be knows little imitation; in the seventies and close scrutiny are necessary to the es- it ever so trifling, engages prompt attentablishment of a single principle; in fine it is the changes wrought by the active mind upon the face, that make it most difficult, if not altogether impossible to formulate a series of definite scientific physiognomical principles; we nevertheless have our convictions, that are based upon certain parallelisms existing between types of face and character, and their general truth we are not willing to ques-



Fig. 161. GOOD GRANDMOTHER.

In Fig. 161 we have an outline that is agreeable; at first sight it reminds us of the genial, compassionate, talkative grandmother; the neatly arranged cap satisfies us of the fact of her double motherhood, and we are led to envy the household that claims her as one of its members.

The high and well rounded forehead, indicates poise of intellect; a mind stored with experience. We know that her adwho come crowding around her knee, in utter confusion.

compared helps him toward positive con- she may be, yet she is still mirthful, artvictions; there is so much of detail and less, curious to know what is going on in complexity in the full face, with its rapid the neighborhood; whatever concerns her transitions of expression, that much time, long list of friends and acquaintances, be



Fig. 162. HOPE AND ENTHUSIASM.

tion. She is lively, quick, rarely at rest; from the hour of waking till bed time, tongue, hands, and feet are alert and responsive to every occasion for their exercise; when the reaper takes her from the home circle, her empty chair becomes long a sad reminder.

Then comes in fine contrast to grandmother, Fig. 162, the girl just on the margin of maidenhood and the side of indulgence; she is quick witted, eager and ready; one minute deeply interested in describing some ever-so-funny occurrence at school, but before the denouement has been reached, she suddenly breaks off to ask you a question about some entirely remote matter, suggested by one could not tell what, it might have been a fly on your face, or a straggling lock. A girl of twelve or thirteen is a problem, a mixture of incongruities; at one time surprising us by a remark that seems to be the outcome of an unusual philosophical insight, and at another manifesting an vice is prudent, and in the giving of it arch, yet exasperating stupidity, with reshe uses words that are kindly and gentle; gard to the simplest truth; she can, howif she must reprove, it is with forbear- ever, pour in upon one a broadside of ance, and her sympathy for the little ones questions, from which we would fain fly

Look at her in our picture, keen, bright, ready, pert, coy, confiding, loving, a reservoir, as it were, of untried possibilities.

On the street we frequently come in sontact with the character represented in



Fig. 163. THE PROFESSOR.

Fig. 163, we know his style and gait at once; people dub him "Professor" for he affects the student, the man of ideas, especially of new and peculiar ideas, of which he claims to be the discoverer; usually he is related to some vocation of an artistical nature, upon which he depends for his living; a painter, draughtsman, a photographer, and in this he has grand schemes for improvement, and lacks only the pecuniary means for their development which would certainly startle the civilized world; give him the opportunity, and he will buttonhole you for an indefinite period, and if you do not indicate some respect for his views, he mentally pronounces you wanting in culture, or wrapped up in a mantle of profound selfishness; nothing, however, can shake his self-possession; no emergency disturbs his composure, and his glib tongue can frame with extraordinary definiteness. a pretext for conduct, however inexcusable in a truly practical sense. He belongs to the large class termed cranky, and any imputation for eccentricity that comes to organization be found?"

his ears, is flung back scornfully as the utterance of old fogyism. The wearing of the hat, style of the beard, its antiquated point, long hair, the nose, all manifest an individuality that irresistibly impresses one.

These are but parts of the tremendous whole, of variety of profile which must strike the reader when in a mixed company; there is always room for speculation in such study, and the speculation may not be altogether without result. Deviations from the normal or standard type of face, suggest impressions favorable or unfavorable, and he who follows them is not often led far wrong.

It is startling to observe the striking differences between people; all observers will bear in mind that it is a rare thing to see a face or form, in respect to which no criticism will be suggested, and rarely the features are so harmonious as to balance each other, and yet be expressive. Where all parts of the head are equal and fully developed, where nothing can be desired as to form of head and face and body, where the size of the head and that of the body indicate harmony and balance, so that health and strength and longevity



Fig. 164. JULIA DOMNA.

may be reasonably inferred, the cases are so rare, that one fails in his investigations; though he sees much to admire, he inclines to ask "Where can perfection of Julia Domna, Fig. 164, has a classical head and face, one is impressed favorably in respect to every feature; the head and face seem to harmonize, and each part appears to be well adapted to the other parts.

In Polly Bodine, Fig. 165, the reader may see opportunity for criticism. The



Fig. 165. POLLY BODINE.

head from the opening of the ear upward and backward, in the region of Self-esteem and Firmness, is enormously developed; the middle of the top-head seems depressed, and there is not a line in the whole head that seems right. There is evidently a great deal of power, but it exists in the direction of pride and stubbornness and passion.

There is enough of intellect to show tact and ability to plan, but it would be supposed that such a head would work in the direction of selfishness. The face lacks the loving mouth; the lips look pinched, critical, fault-finding, unloving, and unlovable; the nose is long, sharp, inquisitive, inclined to interfere and disagree, and with that broad head and high crown she is not likely to make herself loving and agreeable.

Many years ago she was accused of and tried for murder on Staten Island, but from some cause was acquitted. The head and face show a great contrast with those of Julia Domna.

A quick observer will notice anything that is strange or peculiar in the make-up of a person, and as one moves about a great city, his attention will be called to people who don't care for their appearance, on the one hand, and to those that are dressy, vain, and finical in all their make-up, on the other hand.



Fig. 166. THE DECAYED POLITICIAN.

In Fig. 166 we have the outline of a man "who has seen better days," and who has "hope for better things"; he has a pretty good face, originally he was good looking; had good altitude and good form; he belonged to a respectable family and attended to business for years, dabbled in politics, became dissipated, his business was neglected, and we find him on the shady side of a downward career.

to others relative to public affairs; the will lead them to make life pleasant and chances of the election of his candidate in acceptable to others, but they generally with but little force of character, it is nar- and half contemptuous criticism. row between the ears and flattens his hat

at the sides; each feature indicates dissipation, and yet the general make-up of the man gives us a sense of his former respectability. He appears to have his enemy behind his back; the bottle and the glass, which he had just courted, and the bar, have been his bane, and it is evident that but for drink and unworthy associates he might have been a gentleman and a success in life.

"MR. TURVEYDROP."

Fig. 167 is a startling contrast to Fig. 166; in him is seen the dandy, from head to foot; care and pains and pride, sweetened with vanity, seem to prevail. that wealth of hair piled up on a depressed forehead; how carefully it has been treated. The face and forehead indicate superficial and ready intelligence, while his fullness of head at the crown shows predominant Approbativeness; his dressing of the neck, the buttoned coat, the frilled front, the gaitered pants, the massive watchchain, the style of coat, the

way he holds his hands and the manuscript which he is evidently presenting to some dignitary in the form of an address; the whole make-up of that man indicates the dandy, the "Mr. Turveydrop" of his time; the pink of respectability, of style and fashion; "deportment" with him is the dream and labor of his life; he is polite, refined, attentive to the amenities of life, but superficial, heartless, and largely insincere. If such men have money and passions.

He seems to be in a bar-room discoursing do not become dissipated, their vanity the ward. He has a long narrow head make themselves objects of good-natured



Fig. 167. Mr. DANDY "TURVEYDROP."

Fig. 168 represents a type of character which may be found in connection with seats of learning; he may be called the profound thinker; absorbed in his own reflections he dreams as he walks; his arms are crossed behind his back; his head bent forward in proportion as he is destitute of Firmness, Self-esteem, and Approbativeness, and, in general, weak

The base and back region of his head is deficient, the great mass of his brain is forward and in the superior region of the head. A man of this character will be inoffensive; he dwells in the realms of

fails to recognize acquaintances, and scarcely perceives what is passing during his long preoccupation.

It is not Causality alone, but strong Spirituality and Ideality which give him his dreamy look and abstract condition of mind. Behold the contrast in almost every respect between this and the following likeness.

In this, what a sluggish, hard, coarse-



Fig. 168 THE PROFOUND THINKER.

metaphysics and abstractions; he is fond of solitude and protracted meditation; he is inattentive and absent-minded, as he walks, he knows not and cares not where;



Fig. 169. BAD ORGANIZATION.

grained organization! Not of the head and face merely, but extending to the very feet. Is there an outline, a feature of the feet, the legs, the hips, the arms, is entirely absorbed in his own thoughts; the trunk, the shoulders, the neck, or the sometime goes astray, forgets the time, head and face which seems easy, natural,

and back-head are small; exactly the re- body, have produced largely the modified verse indeed of this.

This we call a bad organization, defective in quality, rude in form, an animal in brain, without intelligence, morality, or dignity; he will use his intelligence only to pander to his propensities; such a man given up to himself inclines to evil by the vileness of his propensities, and after great crime against nature and society he is liable to fall into the hands of repressive justice.

In the expression of this head and face one can hardly anticipate anything but propensity and passion, not guided or regulated by intelligence or morality. The face has a greedy, stealthy look, and so far as he manifests intelligence, cupidity, cunning, brutality appear; such an organization if traced, would be found the product of generations of people who have lived in poverty, ignorance, and bru- idle time, had an abuntality. If we can cultivate such a person dance of exercise of a in any degree out of his debased condi- laudable kind in the tion, persons similar to this can be pro- work and care he was duced from better soil by adverse cultiva- obliged to bestow as tion continued for generations.

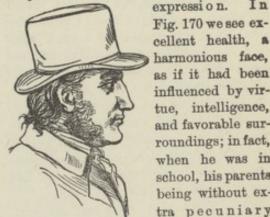
Our profound thinker, represented in board; his thoughts Fig. 168, is the result of culture towards intelligence, refinement, and morality, to the neglect of bodily vigor, and the homely virtues of energy and industry; one has been so much refined as to amount to little of value to the solid working realities of daily life, the other has been cultivated away from morality and intelligence, and all that is brutal has been developed. Each is an illustration of culture, but in opposite directions.

Habit and health do much to modify organization, and especially to build up or pull down physiognomical expression.

A MARKED CONTRAST, Figs. 170-171.

In these two figures, how marked the contrast. When they were boys together in the academy and college they looked

and desirable? Here there is too much more alike than the pictures present them body for the head, and what he has of at the age of forty, yet of course they had head or brain is all in the base, while in differences of character and constitution, the former figure the upward and forward but their mode of living, their method of parts of the head are large, and the base exercising the functions of the mind and



cellent health, a harmonious face, as if it had been influenced by virtue, intelligence, and favorable surroundings; in fact, when he was in school, his parents being without extra pecuniary means, he was ob-

Fig. 170. RECTITUDE.

liged to work his way through the academy, making himself useful in the family

of a physician who kept two horses, a cow, and had a few acres of He had no ground. an equivalent for his were concentrated on useful topics, not en-



gaged in cogitating Fig. 171. DISSIPATION. how he might have what young men sometimes call "a good time" at the expense of some farmer's cherry trees or watermelon patch, or how gates could be changed on door-yard fences, or a billy goat taken to the belfry of the church and tied to the clapper of the bell. He used no tobacco, no liquor, ate wholesome food, sought his pillow because he was weary and awoke in good season because he had something to do, and acquired an appetite for his breakfast while he earned it, and at the tap of the school bell was ready and prompt in his attendance.

Now let us study the contrasting face and character of his proud classmate, Fig. 171,

DISSIPATION.

who had plenty of money; he knew every brand of cigars, the cigarette had not yet come to curse the youth of the land; he was familiar with the opera, knew about the rules of yachting and base ball, visited the shooting gallery and was accounted a good shot; was considered a good judge of every luxury that stimulates and excites; talked horse and devoted himself more to these topics than to his books, often "went to bed mellow" and stupid in the head, and when he managed to graduate he considered himself a gentleman much superior in standing and prospect to the poor young man who had worked his way through college. In twenty years they met, one stalwart, healthy, respected, happy, honored by his fellow citizens with office and trust and emolument; the other having squandered his estate "with riotous living," is troubled now to get even the husks of charity to keep his demoralized soul and worthless body together; he drains lager beer casks for his stimulus when no one treats him, because he is now too low to be treated often, and sneaks into the gutter to pick up cigar stubs with which to load his black pipe; is glad to find an old hat that has been thrown into the ash barrel, and his face shows the history of his downfall. We have seen men as low as he who have become reformed, well housed, and well fed, and in two years' time he would plump out the face and give a new cast to the eye, new expression to all the features, and a new pose to the head; yet a careful observer would see lines and shadows which demoralization had left.

The physiognomy of virtue and vice startles us as we view the extent to which the features may be debased, and also the degree to which plain features may be illumined by virtuous success. These must be seen to be fully appreciated, and yet our fallen friend, Fig. 171, has never become what the world calls criminal, he

sort, and was of that easy, pliant type, yielding to habits that have unmanned and unstrung his whole physical and moral make-up; he has not necessarily been vicious and outrageous, but has sat in a half-drunken mood and sung, "We won't go home till morning," and sometimes not even then; his life has become simply a worthless nuisance. There are those so organized that they become fearfully depraved and outrageously wicked, a terror to all their acquaintances, if they indulge in drink and other demoralizing habits; but here is a son of respectable parents who were wealthy and brought him up with a sort of contempt for work and for people that had occasion to use endeavor for their own support, and his luxuries united with false pride made him a wreck.



Fig. 172. Physiognomy of Dyspersia.

We now have another pair of faces with contrasting Physiognomy and Physiology and mentality. Fig 172 has a long face and massive and dignified chin, with lankness outward from the mouth and only a fair degree of fullness outward from the nose; he has good reasoning intellect, but not a great deal of force; is upright, kind and moral. Among other things aside from the indications of love attributed to the chin, he has in the chin the sign of steady and substantial circulatory power; his heart moves as steadily and strongly as "the old clock on the stairs," is never in a hurry, never behind hand; whatever he may suffer in the way of disease, a disturbed circulation will not belong to the has simply been the victim of pride which list; he would be more likely to have dysscorned industry and worthy work of any pepsia, or difficulty with the lungs.

Fig. 173 is, in most respects, a contrast; the head is apparently broad at the region of the ears; the face between the eye and the mouth is very broad, and the cheek



Fig. 173. CIRCULATION POOR.

bone broad, high, and large, which indicates abundant breathing power, while the cheek outward from the mouth is apparently well developed, indicating good digestive power in contrast with Fig. 172; motions and formation of the lips in utbut behold the little chin, the face is uttery demoralized by its want of development; such a man's heart flutters at every excitement and he is liable to what is called an affection of the heart, or a stoppage of it, especially if he is in the habit of using coffee and tobacco, or spices. He has the practical intellect, quick intelligence, and good talking power; he is brisk, thorough, earnest, but lacks the calm stability of Fig. 172.

And thus we may go on showing contrasts, just as a person walking among strangers or watching the crowd on a thoroughfare as it passes and wonders when and where a harmonious face and form, constitution, and mental development may be found; it is a much more difficult thing to do than one at first would suppose. Let the reader try it as he watches the well dressed throng passing any given point on the street, and he would not see a face in five thousand that he could not instantly see something in respect to which his mind would criticise; a face is too long or too short; the nose is too large, too thin and long, too broad and square; the mouth, if it be looked at as a medial feature, how often in a thou- nified; he was a wealthy man of Massa-

sand can an unexceptional mouth be seen; sometimes the upper lip is too thick and overhangs the under; sometimes the reverse; a mouth looks like a square cut in the face; again it is severe, angular, contemptuous, bitter, hard; again it is soft, characterless, a mere port-hole for food, and an export hole for talk. We remember one lady without going back far to find her, whose mouth under the closest study was perfect, artistically, physiognomically, and physiologically correct; she may have known it herself but never appeared as if she had recognized it; she was a teacher in the art of vocal utterance to mutes, based on the science represented by signs, indicating the position of the tongue, the teeth, and the lips, and there is a literature of these signs which is rapidly made on paper and a mute will read these indications aloud; hers was the proper mouth for perfect teaching by the terance.



Fig. 174. ABBOTT LAWRENCE.

Fig. 174, Abbott Lawrence, was a man of magnificent figure and proportions, was as straight as an arrow, formed faultlessly, and his motions were easy and digchusetts, after whom a prosperous city regular features, without doll-like beauty,

was named, and at one time he was United we will not offend any lady by presenting States Minister to the Court of St. James, Jenny Lind, and a description of her orand it was the remark in England that he ganization; while it will not savor of the

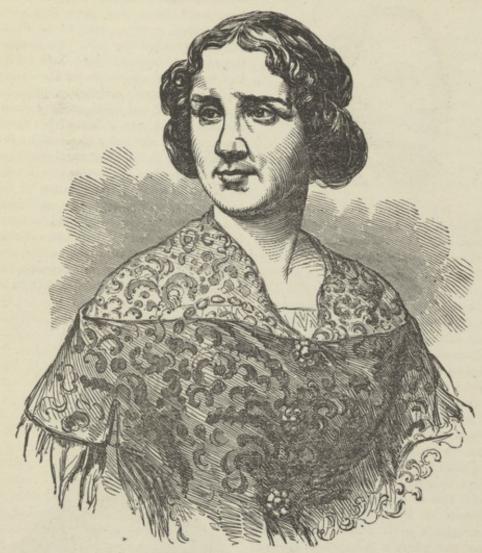


Fig. 175. JENNY LIND (GOLDSCHMIDT.)

was the finest looking man England had beautiful will impress the reader as a maseen from any foreign country.

We do not offer his features as beautiful but as harmonious; each part of the face being well developed, and the whole expression being that of intelligence, morality, harmony of mind and character, and eminent virtue and respectability; yet even that noble face can be criticised; we nose to the chin.

monious temperament, with grand and eyes he listened to the song.

jestic presence; large, finely formed, massive without coarseness, strong without roughness, health without obesity or vulgarity, intelligence without asperity, with breadth of thought, geniality of spirit, and the whole crowned with an expression of the high moral type of development.

The reader should have heard her sing would make it a little larger from the as did the writer, and he would have thought of the angelic, both when he Fig. 175. In selecting a lady of har- looked at the figure, or when closing his quite so much of the Vital, and more ten- ability, soon learn his mistake.

Another type of manly beauty we offer whoever expects to outstrip or out-wind in Fig. 176, Sir Isaac Newton, indicating or out-work or excel him in persistency more of the Mental temperament, not and unflinching tenacity, will, in all prob-



Fig. 176. SIR ISAAC NEWTON.

dency towards the philosophical and the scholarly, and had rather more of the classical type of nose, mouth, chin, and

There is a type of face and form which is called aggressive; a person is inclined to assail, overcome, and conquer; some have the real fighting Physiognomy; others that kind of pushing enterprise that overcomes distances and impediments, it does not take the angry type or severe form, and yet it is aggressive in a certain sense. Captain Stevens was the first man who crossed the Rocky Mountains from the United States, taking a colony with him. He is still living in California, and, of course, this picture being taken when he was old, there is some lack of plumpness which even his now lank form may have had in earlier time; the nose is of the eagle type, and the mouth seems to sympathize with the same idea. In his prime, he was a power where he moved; keen, alert, self-reliant, positive, and plucky, more intent on success than personal safety; to be a daring pioneer, making the first line of footprints was as natural as for a fish to head up stream. A person of that type always in that nose; it is wide at the base, long says "I will try"; he may not boast, but in the wing, high at the crest, long and



Fig. 177. CAPTAIN ELISHA STEVENS. In the face of General Napier, Fig. 178, is the regular fighting Physiognomy;

what a massive, bony outline is expressed



Fig. 178. GENERAL NAPIER.

prominent at the point, with that eagle form which means fierceness and power; then the shelving eyebrows and the castiron upper lip, long, broad, square, and massive, overhanging the under lip as if it were master, then the prominent chin, the broad head, the firm neck, are the embodiment of resolution, severity, courage, and power.

GENERAL PHIL. SHERIDAN.

Doubtless the chef d'œuvre of fighting generals of modern time, or of any time, is represented by Fig. 179, General Phil. Sheridan, but in this case the Phren-



Fig. 179. GENERAL PHIL. SHERIDAN.

ology is more conspicuous as the basis of his power and achievement than the Physiognomy; there is, to be sure, a sharp, piercing eye, there is a prominent brow, perception is keen, and General Grant says of him that he knew more about the locality and number of the enemy than any general in the field.

That is a firm, projective nose, that is a very solid and stanch chin, and the cheek bone and the muscles covering it show rigidity and resolution, and such a neck and such shoulders show a fine pedestal on which to put such a capital.

The head is long from the opening of the ear to the root of the nose, indicating wonderful perceptive power and clear, sharp, intellect; but notice the massiveness of the head above and about the ears; Destructiveness, Combativeness, Secretiveness, all large or very large; we never saw a head with more Combativeness, and there is Destructiveness enough to give efficiency and push in the final pinch; he may safely be regarded as the greatest general of modern times, especially in aggressive assault. While there are those who will mine and manœuvre, and perhaps ultimately compass their ends, Sheridan's hobby was to have a fair open field, and to lead his cavalry charge like an avalanche upon the enemy. We wonder how he can comfortably contain himself in the dull routine of peaceful military detail; he has, however, large Benevolence, and we should expect he would treat his friends and conquered foes with liberal consideration.

SEVERITY AND LEVITY.

This is unique; probably no other one like it was ever taken since photography was known; it is a double face, half laugh and half frown, which a person will the more readily discover and appreciate if he will lay a card over one-half the face. he will then see it is indulging in a hearty smile; if he change the card and cover the laughing side, the other is frowning as if it would take a man's head off, or enjoy biting a ten-penny nail. Janus, the fabled, had two faces, one looking forward and the other backward; here is a man who has two half faces and both looking in one direction but not according to one manner. This is the face of a gentleman who was a student in Columbia College, and having facial pliability and a control of his muscles he sat to a friend of ours for a photograph, with the result indicated by the engraving, and we have the photograph which shows that it was not a made up picture. Children sometimes speak about making up faces; one-half of this is made up and the other half made down.

mental faces.; they were very sour and for the time being, and be made to excurt with their family, very gracious and press nearly any sentiment. polite to outsiders, but we never expected Did it ever occur to the reader, speak-



Fig. 180. LEVITY AND SEVERITY.

we leave the face to speak for itself.

laugh, as if the good-natured side was ing with mirth. more acceptable to their life than the frowning side.

osophy, but it shows that the face can be not that one eye is not more expressive in

We have seen people who carried two moulded according to the inner thought

to see such a demonstration of character ing of eyes or thinking of them, that it is as is here portrayed; perhaps that face the scenery around the eye and not the may be said to be a medium between "the eye itself which gives it the cast and shargrave and the gay, the lively and the se- acter; yet all writers of stories, nearly vere." One would hardly suppose that every person speaks of the eye as lighting an upper lip could have a smile at one up with beauty, sparkling with animation, end and a frown at the other; that one or lowering with rage, as if the eyeball eye could be lifted with an arching brow itself had all these changing manifestaand the sunshine of joy over it, and the tions; when, in point of fact, a well fitted glass eye, which mates the original, will carry with it, sometimes for months, to those who sit at the same table, all the changing reculiarities of the natural eye. Under certain lights and under certain states of mind, and especially of health, the pupil of the eye will enlarge or contract. This, of course, will not occur to the glass eye, and if a person were in the right light, it would be seen that a strong light would contract the pupil of the natural eye and show a difference between it and a glass eye; but when the eyes are thrown in a softened light, such as we generally live in within the bouse, the glass eye will smile and melt and sparkle and frown and weep, exactly like the other eye; and it is simply the surroundings of the eye, its scenery, which makes the difference. Now in this pioture, one eye has the arched brow and the upward lifting, and the elevated angle which makes it look smiling, then the cheek itself below the eye is lifted and dimpled and the corner of the mouth is lifted, giving scenery that supplements other fowering as a thunder storm; but the eye; look at the other eye; it must be the same color; it must have the same ex-We believe that most people have more pression, but the eyebrow hangs like a of good than ill in them, although our cliff and the fringe hangs over and shadengraving seems to show that there is an ows the orb; the cheek drawn down as in equal amount; and the reason of our sadness and the mouth sympathizing with thought is that nearly every person who the frown of the brow, makes the eye looks at this, bursts out into a hearty look severe, while the other eye is melt-

Many will object to this idea, that it is the scenery around the eye, not the eye it-This certainly is a study, a unique self which gives expression. Remember study, with more in it of fun than of phil- we are speaking of a given person's eyes,

itself than another; a deep blue or glittering black eye has its own characteristics, so the gray eye, but in a given pair of eyes it is the scenery not the ball of the eye itself that gives the chief expression.

GIST OF PHYSIOGNOMY.

Thus character is evinced by outline, development, expression of face, attitude and motion, the whole resulting from the pregnant brain which is master of all the outward developments and which vivifies and controls its action and its growth. If the brain be inspired by noble thought Their counterparts, and each shall find its own, and excellent sentiment, the body becomes also inspired; and though the manners have been uncouth and uncultured the mar their form and character, and we uation in Europe. sometimes wonder how so delicate a strucreveal all its possibilities.

ADAPTATION IN MARRIAGE,

"Two souls with but a single thought, Two hearts that beat as one."

This is the idea that has dominated in literature wherever and whenever the very interesting topic of marriage has been discussed, and it pervades most of the thought to-day, in poetry or prose, which has a bearing upon the relations of the sexes. Mr. Stedman says,

" I hold the perfect mating of two souls, Through wedded love, to be the sum of bliss, When Earth, this fruit that ripens as it rolls In sunlight, grows more prime, lives will not miss But now with what blind chance the lots are thrown,"

It is the chief study of the romance intellectual development and mental writer to evolve as best he may his views awakening will make plain features lu- upon the proper elements that should minous and an indifferent form graceful enter into the marriage relation; he would in its action. Men are not aware how show how the best interests of two permuch possibility they carry in their men- sons shall be promoted by union; he is tal and physical constitutions, or of the thoroughly aware that society is largely extent to which culture may educate, de- disturbed and muddled on the subject; velop, and refine them; truly man is the statistics show him clearly enough that a temple of the living God, of the soul im- vast number of unions, consummated mortal, and it doth not to many at least with the aid of the church, prove unappear what they can do, or what under happy, and dockets of court are crowded favorable conditions they may be; not one with suits for divorce, especially in this man or woman in a million is fortunate in country, where the procurement of a all the influences which tend to mould or divorce is easy, as compared with the sit-

All who are conversant with social ture, so liable to perversion, so suscepti- affairs know that in the majority of famible to external influences, can endure the lies there is dissatisfaction; it may not be shocks and conflicts incident to miscella- always apparent to the casual observer, neous modes of life, without suffering but its effects are none the less sad. Two even more than it does. Therefore when young people apparently satisfied with we find a person who is healthy, harmon- each other are united in the mysterious ious in development, agreeable in man- bonds, in the presence of a large circle of ners without flatness, strong without interested and congratulating friends; rudeness, wise without pride, gentle and they receive an excellent "send off," in loving without weakness, we thank God the way of rich presents for housekeeping that we have met His image and have and for personal use; their sky appears some idea what is possible to the human radiant with bright prospects. They race; then for the moment every human begin life together, buoyant with hope; being seems sacred, though abused and but scarcely has a month passed, when lo! scarred by neglect and wrong conditions, a cloud of disappointment in regard to and it is a pleasure to hope that when the some matter lowers; there is bickering, conditions are improved, each human life recrimination, mistrust, perhaps jealousy, will have room and right opportunity to and we find them before the year is out, bitterly set against each other. The world

aware of the unpleasant situation.

by no means uncommon occurrence is the slowly exuding sap. Unfortunately These two young people met each other the wedge was forced out of the cleft, and at some evening entertainment, and were our Oshkosh citizen suddenly found himstruck at first sight by Cupid's dart; that self caught by the nose in the closing slit, is they felt a passionate interest in each and in this painful and ridiculous position other, because of some superficial attrac- he remained over two hours before some

the young lady, is that her relations at get out of their miserable predicahome are not pleasant, and she wants to ment. be free and independent, to do as she Some insist that when the arties really likes. Another reason is want of sym- love each other they will b happy, what stand their inner meaning, and to express persons who are by no means adapted to expected in the domestic sphere.

usually followed by an awakening to the terests by practical endeavor. We believe a delicious juice if tapped in spring time lessly entered upon, and therefore will

without may not know it, but their most he went out one day, struck an axe into familiar friends are made sorrowfully the stem and inserted a wedge in the cleft. Then he applied his lips in the Among reasons people assign for this cut, and proceeded to regale himself with that such a marriage was one of sentiment. through want of skill in its adjustment tion. Neither being mature enough, one came to his relief. If ever that worthy or thoughtful enough, to consider the man is tempted to imbibe maple juice actual nature of the feeling entertained; again from a tree he will doubtless make they concluded suddenly that they were in sure that the wedge is firmly inserted in love, and in course of time pledges of eter- the gap. So some unfortunates in the nal constancy were exchanged, and soon connubial bond zealously protest that the altar made them husband and wife. they will take great care before they are Another reason assigned in behalf of caught in such a fix again-if they ever

pathy; it is applicable to either sex; each ever may be their condition physically or has found in the other, one who seems to financially. Yes, it may be so-but what enter into his or her thoughts, to under- is the nature of love? We can imagine a kind congeniality that is most consol- each other, mentally or physically, to ing. We might enumerate other reasons, have such a love for each other, but we of a lower and more practical character, do not expect to find a case that illusin which the element of selfishness is dom- trates the assumption. Indeed, we can not inant, but these may be supposed by the understand how two persons who are difreader. When one of the parties expects ferently constituted, whose motives morto find in marriage encouragement and ally and intellectually are different, can sapport for some capricious motive, like associate in harmony, since the law of conthat of fine dress, or sensual indulgence, sistent, peaceful association prescribes of a disposition to indolence, or to fashion. adaptation, congruity, a blending of feelable dissipation, unhappiness should be ings as well as interests, an understanding of the purposes of their companionship, A marriage of caprice or of passion is and a mutual desire to promote those infact that a terrible mistake has been made, that the companion, such as the true conand there follows a period replete with jugal mate should be, is a kindred being vain regrets and agonizing uncertainty, who can respond to the spiritual needs of The rapturous fondness is turned to bitter the other, almost before they are exrepulsion-the elysium of yesterday is pressed. Companionship is perfect in the the gehennah of to-day. They who plunge measure that unity is secured; this unity into matrimony find themselves in a situa- may extend to every faculty of the mind tion comparable with that of the citizen of and to every desire of the heart, and Oshkosh who had a maple tree in his gar- every experience of life; the true marden. Having heard that such trees yield riage is a companionship wisely not reckbe productive of joy that is sweeter innermost characteristics are brought out, and higher than any words can des- imperfections, blemishes, vices of char-

relations, prudence, care, discretion, the he is nearly all devil." sense of duty should be exercised. We physiological and social education.

Would you take away all the romance we are not sent into the world paired and neously grow out of their association. of satisfacion in each other's society.

acter come to light that were previously In the outset it was designed by the undreamed of. We have heard a young Creator that men and women should find wife say, "Before I was married I thought in the conjugal relation the promotion of I knew him well, and thought he was twotheir best interests, but as in all other thirds angel, but I was sadly in error, for

Theodore Parker once wrote on this sublook upon marriage as a law of nature, ject in the following terms: "Men and and therefore as a divine institution, and women, and especially young people, de on account of its effects upon society, no not know that it takes years to marry comhuman relation is of more importance. It pletely two hearts, even of the most loving was not designed that it should be entered and well assorted, but nature allows no sudupon in a haphazard, careless, spasmodic, den change; we slip very gradually from thoughtless fashion, and were half the the cradle to the summit of life; marriage care that is exhibited in a well ordered is gradual, a fraction of us at a time; a business of the day, exercised by persons happy wedlock is long falling in love. I contemplating marriage, in the selection know young people think love belongs of their companions, we would see but only to brown hair, and plump, round, little of the misery and crime now pervad- crimson cheeks; so it does for its begining domestic life. As the world goes, mar-ning, just as Mount Washington begins riage seems to be a lottery; and it need at Boston Bay, but the golden marriage not be so, with our present means of is a part of love which the bridal day knows nothing of."

In the very outset then, it is evident of the relation between the sexes? we are that for a happy marriage there s! ould be asked. Yes, if the happiness of married peo- a fitness of character or mental constituple must depend upon the removal of the tion between the parties; harmonious romantic side; but it is not at all necessary conditions are essential. There must be to do that. Those who truly love each certain compatibilities of organic develother think little about romance, for there opment and such a relation of temperais a method in assured affection, that dis-ment that one will as it were fit or match poses of the uncertain and hazardous the other. There should be certain constiphases in love life. The fact remains and it tutional endowments, that mutual likings, is implacably prosaic that as human beings sympathy, friendship, and love, sponta-

fitted to each other without some agency of Some physiologists teach that the conour own; we have selfish natures to be sub-stitutions of the parties should be similar dued, and angelic qualities to be unfolded; so as to insure similar tastes, habits and the true life in its every department is a modes of thoughts, while others contend career of self-training and culture, and a that contrasts should be sought, so as to high idea of attainment is only secured give room for variety, prevent a tendency through constant endeavor, self-denial, to mental stagnation, disagreeable sameand moral discipline. We believe that a ness. Neither of these views express fully couple who find themselves ill-matched, the true law of selection, although both could, through earnest effort, attain to a are partly true. There can be no hargood degree of adaptation; mutual forbear- mony without some difference; there may ance, kindness, conciliation, would bring be difference without harmony. It is not about a happy concert, and they would because she is like him that a man loves enjoy more than the average amount a woman, but because she is unlike. For the same reason she loves him. The So close is the married relation that the more womanly the woman, the greater

physique, nature inclines us to select our ance in their children.

her power over men; in proportion as she to intensify their intellectual activity, and approaches the masculine in person or their offspring are likely to inherit in character does she repel the other sex. greater excess the constitutional qualities So a woman admires manliness, strength, of the parents. In an analogous way, a force in men, and contemns effeminacy, preponderance of the Motive or the Vital weakness, supineness, whenever she finds system in both parties tends to connubial it in masculine dress. In the matter of discord, and a lack of temperamental bal-

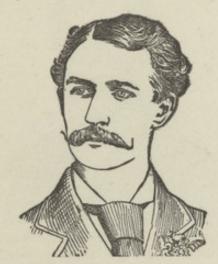


Fig. 181. HARMONIOUS MAN.

opposites; the dark haired, swarthy man, is inclined to admire the light-haired, tion is well balanced and the character as young wife who are married and mated. constitution should be avoided.

developed in both parties has the tendency are mainly referable to the similarity of



Fig. 182. HARMONIOUS WOMAN.

Figures 181 and 182 represent persons oblonde woman; the lean and spare ad- highly organized brain and a nice combimire the stout or plump; the plain man nation of qualities; there is a similarity generally admires and associates with the which is at once noticed; the elements are fair and beautiful woman; and on the so well proportioned on each side, that we other hand, we find plain and apparently should not hesitate to say that the union of unattractive women, so far as face and such parties would most likely prove favorproportion are concerned, united to hand- able both for their own happiness and for some, striking men. Nature abhors ex- the constitution of their children. The tremes, and gives an impulse to the pro- delicacy and refinement of their organizaduction of harmony and proportion; tions are sustained by strength of physique would make the husband and wife not and excellent recuperative power, as can counterparts but complements, that the be seen in the fullness of the cheeks and results which appear in their children be chin. Veiled by the rounded curve of intermediate, symmetrical, and therefore the features but not entirely concealed, is an improvement on either parent. The a tenacious frame-work of bone and mustemperaments, unless they are nicely com- cle. These portraits are taken from life bined on each side, so that the organiza- and represent a young husband and a

finely proportioned as the mind is harmo- Physiologists proscribe the marriage of niously developed, should be different; cousins, and rightly so, because in the too close a similarity in special, one-sided majority of cases their union is attended with disastrous results; but we think that The Mental temperament when strongly the unfortunate effects of such marriages constitution inherited from a common it should be merely for companionship object, other things being equal, to a

stock. If two cousins who wish to marry and with the expectation on the part of were different in temperament, inheriting the lady that she must act the nurse to their more striking qualities of physique him. Such a woman as Fig. 185 might and brain organization from the unrelated be willing to do so, if he had ample means, sides of their parentage, we should not and would have confidence in her man-



Fig. 183. THE BRUNETTE.

union. A close investigation into the cirit shows a striking similarity of temperamental constitution, as a rule whatever may be the temperament, disclose a more marked deterioration where the mental is in excess on both sides. Generally one with such a marked expression of the mental, as in Fig. 31, should either remain single, or marry a woman organized like Fig. 183, she having a good degree of the motive temperament, with vitality, and sufficiently educated to share in his aspirations and intellectual avocations. It scarcely need be said here that we do not favor marriage between parties, one or both of whom are diseased, and we approve the view of physiologists that condemn marriage on the part of one who has pulmonary disease, or any constitutional disorder that may be transmitted to posterity. It is a crime against society and inadequate supply of physical strength; against Heaven to bring innocent children especially would this be the case did she into the world fettered and tortured with consort with a man like Fig. 17 or Fig. 184. inherited ailments. A man like Fig. 184



Fig. 184. INELIGIBLE.

agement. An organization like Fig. 104 depleted and dyspeptic if not consumptive would be unfortunate as far as the children were concerned in any relation; they would be few and puny and die young; cumstances of inter-marriage, that has their too keen sensibilities, the excess of resulted in deterioration of families while mental activity soon would drain their



Fig. 185. HEALTH AND HAPPINESS.

The Motive temperament needs an should remain single; and if he married association with a partner giving a pretem. Fig. 186 should look for a lady with their married life, are fully deserved. an exuberant stock of vitality, similar, for to the family circle and investing offspring be lost sight of, but as has been already

dominance of the Vital or nutritive sys- pointments that occur in the course of

One of the natural qualifications for instance, to Fig. 187; the union in such complete satisfaction in the conjugal case imparting energy, strength, impulse sphere is health. This point should not



Fig. 186. Positive and Enduring.

with physical activity, good health, and good nature. One with a strongly developed Motive temperament united in marriage to another whose organization is similar, would lack the warming, genial influences which modify slow, rough, austere features, characteristic of the constitution; the pair would not move along in the current of progress, they would be drags upon the life of society-unless awakened by some exceptional impulse, and their children would inherit in a still higher degree their parents' homely angularities of person, and their sturdy, energetic, and rough traits of character.

We have said that men having dark hair, or the motive constitution, feel drawn toward the fair-haired and plump women; but it sometimes happens, from expectations of personal advantage, that the motive man is joined to the motive woman. Pecuniary considerations should not be permitted to influence one's views in the all important matter of marriage; we severely condemn the man or woman who marries for money, and we think that the uncongeniality and the train of disap- in marriage; what is lacking in the husband



Fig. 187. GENIAL AND ADAPTIVE.

intimated, the Vital temperament should not be excessive on both sides, since the ardent, impulsive influence of this temperament leads to excessive indulgences of passion and appetite. One does not restrain the other and hence they are likely to dissipate their strength, become fitful, vacillating, and indolent, and the children inherit too much of the animal nature; and not enough of mental power: too much appetite, and love of pleasure, with indifference to motives of aspiration, industry, economy, and refinement.

A good development of the Mental and the Motive elements as are indicated in Fig. 119, should be looked for by one having a full Vital temperament, as the association will help to impress him or her with ideas of steadfas tness, industry, and personal advancement, and ascourage the disposition to ease and self-gratification. A finely organized, aesthetic constitution, so well shown in Fig. 29, should be matched with one possessing energy, sprightliness, culture, and sympathetic feelings. Fig. 73 might neet her want. Discordance in the close intimacy of marriage would render such a woman desperate, while harmony would make her one of the happiest on earth.

From what has been said it may be inferred that the point we aim to indicate is that fair or approximate balance in the temperamental elements should be sought should be made up as much as possible by fingers the keys that are to render the subthe wife, and vice versa; one being a com- lime anthem of disenthralled humanity; plement or counterpoise of the other, the chief agent of this long desired conditends to an harmonious adjustment of tion will be mental science, through their domestic relations, and to the trans- the diffusion of which among the people, mission of a better development than all shall be enabled to study themselves either possesses to their children.

and breadth; we know that it is specially nature, and become in all respects well nies of ordinary domestic life, and a de- a true wife. about in them. The home and the fam- becomes of little difficulty, and one may ily are the center of human interests, and determine in reference to any particular with their perfection will come the perfec- individual of the opposite sex, whether

mentally and physically, to know how It would be impossible in a single volume they are made up, and how they may proto present this subject in all its length mote in themselves a growth of the higher interesting, and that what has been said rounded, symmetrical men and women. will only incite inquiry and desire to He that would be truly mated, should know more, we must therefore refer the first see to it that he possesses all the reader to our books on the subject of qualities of the true husband, and then marriage and its physiological and social by careful observation he will become acrelations. We recognize the inharmo- quainted with her who will be to him Beginning first with a cided improvement should be brought knowledge of self, the study of others tion of the great body civil and political. there is between him and her the gradu-The time will come, we are assured, ated difference which shall contribute to when men will touch with no uncertain harmony and beauty in marriage.

SELECTION OF AN OCCUPATION.

labor of head or hand, to select such a munerative, without stopping to inquire profession or business as shall be, on the whether by instruction, by mental develthe person, so as to attain the largest who should be a jeweler is made a black amount of success with the least friction smith, one who should be a carpenter of mind or burden to the constitution. It is made a tailor, and one who should is true, doubtless, that ninety-nine men be employed as a blacksmith is sometimes out of a hundred could win a comfortable put into a fancy store. support if rightly related to business, or delicate business greatly to the dis- his morals. comfort of the operator; in other cases

As most persons are obliged to employ those who are delicate and slender are themselves usefully to obtain the means placed in pursuits that demand strength of support, and as different occupations and bodily endurance beyond their abilirequire different kinds of talent and bodi- ty to meet. Parents choose for their ly constitution, it becomes a matter of children professions or pursuits which moment to all who must earn a living, by they think are respectable, or easy, or rewhole, best suited to the constitution, opment, by habits of character there is an the type of talent and mental character of adaptation to the business adopted; one

The study of the temperaments and if the proper profession or occupation phrenological developments would direct was adopted and followed; but people each boy to the right trade or occupation, are misplaced; those who ought to be in where he could, on the whole, do the occupations demanding robust strength world and himself the most good, and and vigor are sometimes placed in a light maintain his health, his cheerfulness, and

The engravings in this work indicating

young men, who is best adapted to busi- to the upward back corner, and from

different styles of development with the Sublimity are located, giving him the facexplanations which accompany them will ulty for invention, mechanical ingenuity, aid persons of intelligence to com- tact to devise ways and means and carry pare their own general make up and de- them out for the construction of anything velopment with the portraits referred from a watch to a locomotive. Observe to, and to guide them to a proper choice how wide the head is above the ears, of a pursuit. The science of phren- where Destructiveness and Combativeness ology throws a flood of light on this sub- fill it out. He has also large Secretiveject, and one who is expert in the profes- ness and Cautiousness, thus filling up the sion can readily appreciate, in a class of side head, from the opening of the ear



Fig. 188. MECHANISM.



Fig. 189. Business.



Fig. 190. Books.

following portraits will give some sug- gion of the mechanical powers. Then his gestions on this subject.

and strong temperament; and, there- ested. fore, endurance and constitutional stabackward from the corner of the eye, and about a subject. upward towards the temples where Con- His large perceptive organs give him structiveness, Acquisitiveness, Ideality and the practical knowledge, and his full up-

ness, books, or a mechanical trade. The the opening of the ear forward, in the rehead is high enough at Firmness, a point The heads and faces of these three directly above the opening of the ears, at young men represent three classes of tal- the center of the top-head. He has solid ent and faculty, and three important common sense, good reasoning power, branches of duty and achievement. good ability for financiering, great pow-Fig. 188 represents and is adapted to er to govern men, to manage and control, Mechanism. He has a firm constitution and push the cause in which he is inter-

Fig. 189, BUSINESS. That is a bright mina. He is capable of doing the work, face and a well developed head. He is and enduring the fatigue and hardship naturally adapted to be a business manwhich may be imposed upon the man who ager and a salesman. His large Language, is a builder or a mechanist. Observe the indicated by the fulness of the eye, and solidity of the features; that strong nose the width and prominence of the brow, and solid upper lip, that substantial cheek- qualify him to take in the particulars perbone and chin. Observe the fulness across taining to business affairs; to recognize the brows, indicating practical judgment. the details, and to describe definitely, See how wide the head broadens out, readily, and copiously, whatever he knows

per forehead gives him a general planning and the second can have banking, insurmakes it acceptable and interesting to have an education for the pulpit, the bar understand the mechanical qualities of make no mistake in starting in life. any articles he might have occasion to sell. Acquisitiveness and Secretiveness are large enough to give him a relish for trade and business, the requisite policy to adapt himself to customers and to emergencies, as well as a love of property, power, good memory, Combativeness, Apand the desire and skill to acquire it.

Combativeness to make him energetic and give the intensity of feeling and clearness enterprising, with rather large Approba- of intellect; large Eventuality, to recall tiveness to give him a desire to please and law cases and decisions; large Comparigain approval.

tation, to meet the wants of active, popu- speech. lar business men.

comparatively narrow and long. The drift vation of character, and blamelessness of and spirit of such an organization is to- conduct; large Veneration, Hope and ward ideas, sentiments. books. He would Spirituality, to imbue them with the become the writer, the investigator, the spirit of faith and devotion; large Benevliterary and theological student.

erence, integrity, and spirituality. He truth and righteousness. has enough of the development in the upper side head to give him a sense of the Vital temperament, to give him smoothbeautiful, the poetical, and imaginative, ness and pliability; strong social feeling to and if he does not reach the pulpit it will make him welcome, Benevolence to make be because he is not surrounded by re- him patient and generous, with large perligious influences, or not so related to ceptive organs, so that he may study and education as to enable him to acquire the apply the knowledge of Anatomy and requisite culture.

or such merchandising as deals almost flicting the pain requisite to cure; large

ability, while his Language enables him ance, dry goods, or what would be called to express his knowledge in a way that commercial business, and the third can others. He has also wideness of the or the editorial room, they will achieve temple; showing taste for the beautiful, far more than they could do if the poadaptation to mechanism, so that he would sitions were reversed. Young men should

SPECIAL PURSUITS.

A LAWYER should have argumentative probativeness and Self-esteem. He re-He has sufficient Destructiveness and quires the Mental-Vital temperament, to son, to compare different parts of the law He has a pliable, mobile face, full of ex- and evidence-to criticise, cross-question, pression and animation, with enough of illust ate, and adduce similar cases; and tact and grace, policy and power of adap- large Language, to give freedom of

CLERGYMEN should have the moral or Fig. 190, BOOKS. Education, profession- gans large, a good intellect, and subordial life, scholarship are evinced in that en- nate propensities. They acquire the mental tire make up of head and face. Observe temperament, to give them decided prethe length of the face from the chin to dominance of MIND over their animal prothe eyebrows, as compared with its width; pensities; a large frontal and coronal it has classical outline, delicacy of struc- region, the former to give them intelture, and natural refinement. The head, lectual capacity, and the latter to impart corresponding with the face, is high, high moral worth, aims, and feelings, eleolence and Adhesiveness, so that ther The tallness of that head indicates theo- may make all who know them LOVE them, logical tendency, spirit of sympathy, rev- and thus win each over to the path of

A PHYSICIAN needs a predominance of the Physiology with skill and success; full If the first of these can take mechanism Destructiveness, lest he shrink from inwholly in things of a mechanical character, Constructiveness, to give skill in surgery;

large Combativeness, to render him resolute and prompt; large Cautiousness, to Constructiveness, Ideality, and Human render him judicious and safe; and a large Nature, and not much Combativeness. head, to give him general power of mind.

ality, Mirthfulness, Comparison, Self-es- Hope, Constructiveness, Size, Weight, teem, Friendship, and the "patience of and if he builds houses, Inhabitiveness Job."

A PHONOGRAPHER needs the faculties of Form, Size, Order, Constructiveness, ness, Ideality, Form, Inhabitiveness, only medium Combativeness, and the Mental-Vital temperament predominat-

THE TEACHER should have an active brain, a prominent brow, a full eye, a good memory, kindness, courage, and selfreliance, and a fondness for children.

AN ENGINEER requires mathematical talent, Constructiveness, Locality, Individuality, Comparison, Acquisitiveness, Caution, Continuity, and more of the Mental than Vital and Motive temperaments.

THE ENGRAVER should have Ideality, Order, Constructiveness, Form, Comparison, and a Mental temperament.

A PAINTER of portraits, landscapes, and flowers, needs predominant Color, large Form, Size, and Ideality.

THE WATCH-MAKER needs a delicate mental and physical organization, Comparison, Form, Size, Individuality, with

A SINGER should have the Mental-Vital temperament, to give pathos and intensity, large Tune, large Language, Eventuality, and strong moral and social organs.

THE ORGANIST requires mechanical atalent and a taste for combinations, to operate the instrument, and carry all and Locality.

A CANVASSER should have large Lan- them. guage, Mirthfulness, Agreeableness, Lo-Combativeness.

DRESS-MAKERS should have the organs developed and strengthened. of Form, Size, Weight, Color, Order, Con-Vital temperament.

A SCULPTOR needs Form, Size, Weight,

A CARPENTER needs large Combative-THE EDITOR requires Language, Eventu-ness and Destructiveness, Firmness, and Friendship.

AN ARCHITECT requires Constructive-Firmness, and Veneration.

A PHRENOLOGIST really ought to have a first-rate head, because he has to deal with and judge of every organ, faculty, and function of the human system; but if he can't have all, he should have at least good perception, excellent memory, strong Comparison and Human Nature, full social development, and strong moral organs; and the more he has of Constructiveness and Ideality the better.

A MAN to have the care of horses, should have large Philoprogenitiveness and Benevolence, and a smooth and placable temper, and not be harsh, rough, or overbearing.

AN OFFICE BOY needs targe perceptives, an active temperament, Benevolence, Veneration, and Conscientiousness, that he may be quick, respectful, and reliable.

A GARDENER needs muscular strength, Order, Time, Ideality, and Constructive- practical talent, good taste, and domestic feelings.

GIRLS FREQUENTLY are obliged to earn their living; what they can do best, and get the most pay for, without detriment to health, or morals, are great questions. Phrenology answers them.

A BOY OR GIRL TO BE ADOPTED should have enough of Conscience and Intellect the parts; he needs Combativeness, Self- to be worth the training and culture, and esteem, Firmness, Tune, Eventuality, not so much of the selfish and animal as to be a bane in the family that adopts

BOYS WITH LARGE BRAINS and small bodcality, Form, Approbativeness, Friend- ies should not be kept in school for a ship, Acquisitiveness, Secretiveness, and college education, but should be on a farm, or in a shop, where the body can be

A BOY WITH LARGE CONSTRUCTIVENESS structiveness, Ideality, and a Mental- and Combativeness may learn to be a builder, or railway engineer, or blacksmith.

A BOY WITH SMALL COMBATIVENESS and head and organs in unbalanced developlarge Firmness, and Self-esteem, should ment; some faculties are strong, working get into a business where directing others in different directions, without proper and superintending will be required.

THE MAN who "loses his head" in case of fire, or other emergency, has Mental temperament, large caution, and small Hope, Self-esteem, and Combativeness.

THE MAN who assumes command, and friendship, parental love, or conjugal love. knows what to do in emergencies, has the tion, large Firmness, Self-esteem and Combativeness. Hope, good Constructiveness, and plenty of Combativeness and Destructiveness.

to travel, and have a business all over Comparison, and moderate Secretiveness. town, or out of town.

of charity.

push and drive work.

JEALOUSY is caused by Approbative-Amativeness.

Motive temperament.

ECCENTRICITY is caused by an uneven cide what to do.

modification and restraint.

Bravery comes from Combativeness and Destructiveness, Approbativeness, Self-esteem, and Firmness, and medium caution, and may be excited by patriotism.

COWARDICE is caused by a sensitive tem-Motive-Vital temperament, medium cau- perament, large caution, and moderate

FAULT-FINDING is often attended by a nervous, irritable temperament and dis-THE MAN with large Locality will incline position, sharp Combativeness, Order,

THE SENSITIVE PERSON has an excitable A MAN WITH LARGE BENEVOLENCE will Mental temperament, with too little of be generous, liberal, inclined to be a mis- the Vital and Motive temperaments, and sionary, or nurse, or minister in the way a deficient condition of the circulation; the blood rushes to his head, and he is A MAN WITH LARGE COMBATIVENESS likes measurably paralyzed; with extra Cauhard work, or occupation that demands tion, Ideality, Approbativeness, and a active energy; he likes to command, and poor memory, there is a tendency to confusion and anxiety.

" CHOICE OF PURSUITS; or, What to do ness, Secretiveness, Acquisitiveness, and and Why," by Nelson Sizer, describes seventy-five trades and professions, and the PRIDE is caused by Self-esteem, Firm- talent and temperaments required for ness, and Approbativeness, with a Mental- each. It should be in the hands of parents and young people who have to de-

SHAKSPEARE'S DRAMATIC CHARACTERS.

each face is a revelation.

ology, as we now understand it, had not character. been discovered when he wrote his won-

The dramatic poet of the world, and derful dramas. Yet, how perfectly do the the heads and faces which sympathetic physical contours of his actors, as we inart has happily given to his characters, stinctively perceive them, compare with express every phase of human thought, their characters! Look for a moment at feeling, and sentiment, and furnish a fit- Shakspeare himself, with his exquisitely ting subject for the conclusion of the fine organization, then at Falstaff and work before us. Every head is a study; Dogberry, with their swaggering coarseness and superfluous adipose! The marvel By what means did Shakspeare read of these wonderful portraits is in the fact character? Was he a seer? and were his that they illustrate life to the letter. We marvelous delineations based on physio- can almost see the pompous Falstaff, logical influences, sometimes called intui- strutting about bar-rooms, boasting of tions? That he saw the relations of "form how much beer and wine he can drink and function," even without the rules of without getting drunk! Each portrait in science, there can be no doubt. Phren- the group tells its own story-its own

The saying, "It takes all sorts of peo-

there is scarce a type or passion inciden- ground of obscurity, that he seems less

ple to make up the world," is well exem- ing personality. What a bold fore-ground plified in the assembly of real and ideal does this Falstaff constitute for Shakspeare heads now before us-ideal most of them, himself, who, with all the abstractness as regards their personal identity-but all of true genius, is so entirely self-forgetful, real in their representative capacity, for so modestly retiring into the dim back-



Fig. 191 .- WILLIAM SHARSPEARE,

here.

tal to the human race but has been por- real to us than any of his creations. Pertrayed by the hand of the great master of haps there is no other English writer of dramatic art. What varied and contrary whom it can be said, as of Shakspeare, phases of human character and emotion that, while stamping every line with his are here depicted, and with what rare unmistakable individuality, he has nofidelity to nature! Surely, if "variety is where revealed to us aught of his personcharming," we have an abundance of it ality. Even in that grandest epic poem of our language, "Paradise Lost," we are What a field for contrast is afforded not permitted to lose sight altogether of in these two groups before us. Compari- "Mr. Milton," but we may search in vain sons may be "odious," but contrasts care- throughout his voluminous writings for fully and analytically drawn are both in- the slightest glimpse of "Mr. Shakspeare." teresting and instructive. Contrast, for We see, indeed, the mystic hand that traces instance, the central figure of each group these wondrous living characters upon the -the wizard, whose magic pen has evoked mural expanse of our conscious apprehenall these varied and wonderful creations, sion, but no definite outline beside them and the character that figures so exten- can we discern of the character of its possively in several of his plays-Shakspeare sessor save by analogy. So truly is Shakand Falstaff. The latter, a vain, conse- speare, as an individual, lost sight of behind quential braggart, a sensualist, living in the luminous cloud of his own creations, and for the physical world alone, thor- that some have even gone so far as to deny oughly taken up with a sense of his own his existence altogether, and to bestow importance and corporeal well-being, a his well-earned honors upon others. Invery real character-a strongly self-assert- deed, it seems easier to believe that Fal-

staff drank and blustered; that Romeo ance of any but a conqueror? And conof jealousy and revenge; that Lear howled well-deserved success. in impotent frenzy to the tempest, only less mad than he; or even that Puck performed his mischievous antics, and that Titania came under the influence of an infatuation which has not been without its parallel on many real occasions in these later times, than that Shakspeare actually lived and wrote. Perhaps of all his characters he most resembles, in the atmosphere of mystery that surrounds him, and the quiet dignity with which he exercises his magical art, the wondrously-gifted Prospero. Like him, he has spirits to do his bidding; like him, he can rouse or allay at pleasure the tempest of human emotion; and like him, also, on retiring from the field of action, he has broken and cast away his mystic wand, and "deeper than ever plummet sounded," hath he hidden his magical book, and whose is the hand that shall recover and once more wield it?

To the right and left of "Honest Jack" we see depicted two contrary phases of that passion which he was never capable of feeling toward any one but himself. The frank, impulsive tenderness of "love's the divine passion is exemplified in the quy in the garden: loving, true-hearted Juliet, who, with Romeo, portrays the close affinity of true love. We can almost hear her say:

Three words, dear Romeo, and good-night, indeed; If that thy bent of love be honorable.

Thy purpose marriage, send me word to-morrow By one that I'll procure to come to thee, Where, and what time, thou will perform the rite; And all my fortune at thy foot I'll lay, And follow thee, my lord, throughout the world.

Quite different, as may be seen at a glance, is the state of affairs existing between the shrewish Katharine and the whimsical, self-willed Petruchio. There seems to be little enough of an "affinity" here, and the resolute way in which each we have a striking illustration and emturns the cold shoulder upon the other bodiment of that madness, for we can augurs but poorly for conjugal felicity in call it nothing else, which, however the future. But the shrewd Petruchio different may be its causes, however knows well what he is about; nature varied its modes of manifestation, has has given him the right to look for a fav- for its assured end the dethronement, orable issue to his plans; for when did temporarily or forever, of reason such a nose as his ever grace the counten- from her

and Juliet loved and suffered; that Shy- queror he is, too, his experiment, pertilock and Othello nursed the black demons naciously carried out, being crowned with

> Baptisto-Now, by my halidame, here comes Kath-Katharine-What is your will, sir, that you send for

> Petruchio-Where is your sister, and Hortensio's

Rath.—They sit conferring by the parlor fire.

Pet.—Go fetch them hither; if they deny to come,
Swinge me them soundly forth unto their hus-

Away, 1 say, and bring them hither straight.
[Exit Katharine. Lucentio—Here is a wonder, if you talk of a wonder, Hortensio—And so it is: I wonder what it bodes? Pet.—Marry, peace it bodes, and love, and quiet life, An awful rule, and right supremacy; And, to be short, what not, that's sweet and happy happy.

So much for a good nose, with a good brain above to direct it!

We have here two veritable asses' heads, independently of the one so obligingly set by Puck upon the shoulders of Bottom. No need now to grant the request of him who desired so pathetically that he might be "writ down an ass," as his expressive countenance does it for him after the most approved fashion. As for Malvolio, the vain, conceited, strutting steward, if he be not Darwinically and lineally descended from the genus "donkey," his features, no less than his words and actions, do most first dream," the utmost self-surrender to woefully belie him. Witness his solilo-

"'Tis but fortune; all is fortune. Maria once told me she [his mistress Olivia] did affect me; and I have heard herself come thus near, that, should she fancy, it should be one of my complexion. Besides, she uses me with a more exalted respect than any one else that follows her. What should I think on't? * * *

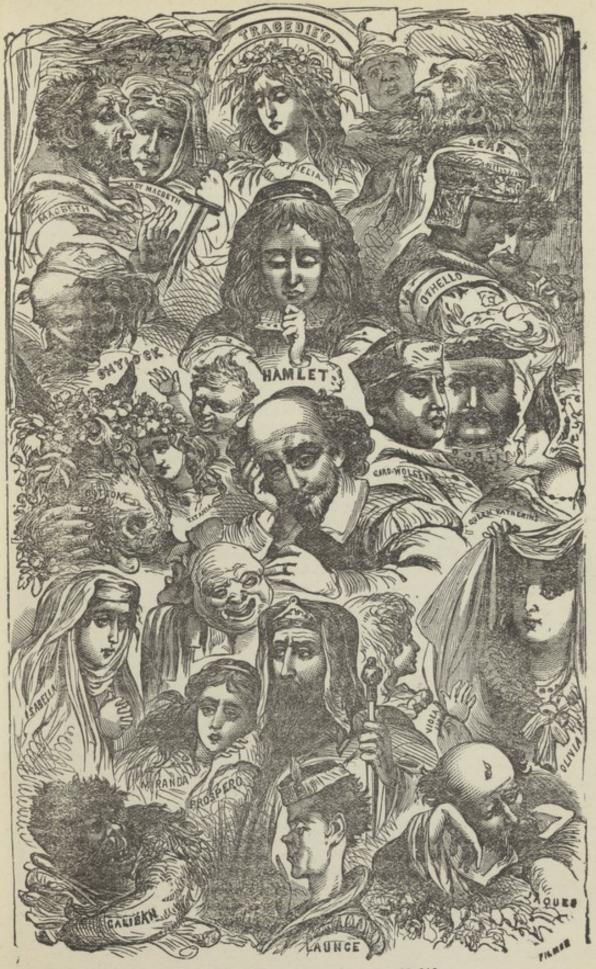
To be Count Malvolio: * * *

There's example for't; the lady of the starchy married the yeoman of the wardrobe. * * *

Having been three months married to her sitting.

Having been three months married to her, sitting in my state, * * * Calling my officers about me in my branched velvet gown. * * * And then t' have the humor of state * * * telling them I know my place, as I would they should do theirs—t' ask for my kinsman, Toby." Toby.

In the characters of Macbeth, Ophelia, Lear, Shylock, Hamlet, and Othello, proper seat,



SHAKSPEARIAN CHARACTERS.—Figs. 192-216.

changing of man from a responsible being Perhaps we could not better illustrate to the mere tool of extravagant impulses. these two characters in one short quota-In Macbeth it assumes more of a passive tion, than by that brief interview from form. "Infirm of purpose," he resigns himself-for his manhood's sake, be it said, however, not without a struggle-to the guidance of insatiable ambition, on the one hand, and to a too easily awakened ere lulity on the other. Is it any wonder that, given over to folly, he reaps folly's reward? his distempered brain being forever haunted by the accusing specters of his own rash crimes. When at the banquet with his lords the ghost of Banquo appears to him, how vainly he endeavors to assume the brave man:

What man dare, I dare!
Approach thou like the rugged Russian bear,
The arm'd rhinoceros, or the Hyrcan tiger;
Take any shape but that, and my firm nerves
Shall never tremble: Or, be alive again,
And dare me to the desert with thy sword;
If trembling I inhibit thee, protest me
The baby of a girl. Hence, horrible shadow!
Unreal mockery, hence! Why, so; being gor
I am a man again. Pray you, sit still.

ingratitude of his own children; and the following. blow which strikes at the citadel of life fruitless reproaches and lamentations.

I il tell thee—Life and Death—I am asham'd That thou hast power to shake my manhood thus— That these hot tears, which break from me per-Should make thee worth them. Blasts and fogs upon thee!
The untented woundings of a father's curse

The untented woundings of a father's curse Pierce every sense about thee! Old, fond eyes, Beweep this cause again, I'll pluck you out, And cast you, with the waters that you lose, To temper clay. Ha! is it come to this? Let it be so. Yet have I left a daughter Who, I am sure, is kind, and comfortable; When she shall hear this of thee, with her nails She'll flay thy wolfish visage. Thou shalt find That I'll resume the shape which thou dost think I have cast off forever; thou shalt, I warrant thee.

of resemblance. Both are delicate, sensi- fidious friend, Iago, was temporarily detive organizations; both suffer through ranged beyond doubt. Mark the incoherthe misdeeds of others. Poor Hamlet, ence of this outbreak: melancholy mad, and Ophelia, distracted with grief, are not altogether without their pre 'otypes in our own times, and therefore dicit our profoundest sympathy.

which we take the following:

Ophelia.—My lord, I have remembrances of yours
That I have longed long to redeliver;
I pray you now receive them.
Hamlet.— No, not I;

I never gave you aught.

Oph.--My honor d lord, you know right well you did,
And, with them, words of so sweet breath com-

posed
As made the things more rich: their perfume lost,
Take these again; for, to the noble mind,
Rich gifts wax poor, when givers prove unkind.
There, my lord.
Ham.—Ha! ha! are you honest?
Oph.—My lord?
Ham.—Are you fair?
Oph.—What means your lordship?
Ham.—That if you be honest and fair, your honesty
should admit no discourse to your beauty.

should admit no discourse to your beauty.

Oph.—Could beauty, my lord, have better commerce than with honesty?

Ham.—Aye, truly; for the power of beauty will sooner transform honesty from what it is to a bawd, than the force of honesty can translate heauty into his likeness; this was some late beauty into his likeness; this was some time a paradox, but now the time gives it proof. I did love you once. Oph.—Indeed, my lord, you made me believe so.

being gone, It is well that Hamlet should not marry Ophelia. The result of the union of two Lear betrays more of the outward and organizations so delicately balanced, sc physical appearance of madness. In him similar, and so liable to be overthrown, we see a father's heart broken by the base could not but be disastrous to generations

Shylock, permitting the intemperate spares not that of reason. The stroke is spirit of revenge to carry him beyond all wielent in proportion to its suddenness; reasonable limits of reason and humanity, and his days being henceforth numbered, involves himself in a labyrinth of difficulty spend themselves quickly in frantic and intended for another, thus procuring his own sudden downfall.

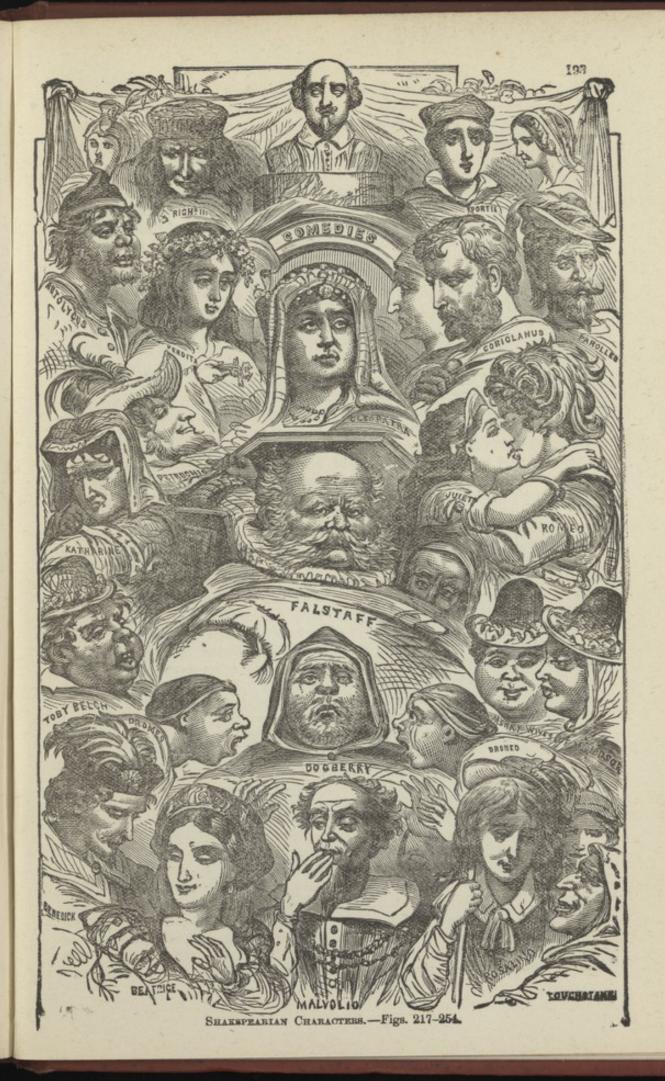
Shylock .- I'll have my bond; speak not against my

Shylock.—I'll have my bond; speak not against my bond;
I have sworn an oath, that I will have my bond;
Thou call'st me dog, before thou had'st a cause;
But, since I am a dog, beware my fangs;
The Duke shall grant me justice. I do wonder,
Thou naughty goaler, that thou art so fond
To come abroad with him at his request.
Antonio.—I pray thee, hear me speak.
Shylock.—I'll have my bond; I will not hear thee
speak:

speak; I'll have my bond; and, therefore, speak no more. I'll not be made a soft and dull-eyed fool, To shake the head, relent and sigh, and yield To Christian intercessors. Follow not; I'll have no speaking. I will have my bond.

Othello, the Moor, giving way to the Hamlet and Ophelia have many points mad spirit of jealousy, excited by his per-

Sir, she can turn, and turn, and yet go on, And turn again; and she can weep, sir, weep; And she's obedient, as you say; obedient— Very obedient—Proceed you in your tears, Concerning this, sir. O, well-painted Passion! I am commanded home; get you away;



I'll send for you anon. Sir, I obey the mandate, And will return to Venice. Hence, avaunt! Cassio shall have my place. And, sir, to-night, I do entreat, that we may sup together. You are welcome, sir, to Cyprus. Goats and

Call it what you will-ambition, avarice, jealousy, revenge—it became madness in the end, with each and all of them, for a deed in which passion rules and reason takes no part is surely a mad one.

The many characters of Shakspeare's plays afford no more striking contrast than that presented by the magician Prospero and the man-brute Caliban. Here we see gigantic strength and untamable ferocity under the firm control of a higher nature, compelled to obey its behests, and continually kept within bounds by an influence, unseen, impalpable, but stronger than cords of steel. Is not this typical of the rule of the higher nature over the lower? of intellect over mere physical force? of mind over mere gross matter? What a fearful representation is Caliban of man possess or can obtain upon the subject of ing to the carnally-minded, the brutally- sion; and nowhere is it more required, disposed, to look well to their ways, lest for few of these characters ever sat for a they, in themselves or in their posterity, should ever sink to such a depth as this! Indeed, each of us has an incipient Cala- what may be obtained through analogy ban in his composition, and well is it if we from their words and actions. "Out of have it under the firm domination of a master; thus, and thus only, can it be made to render us that service which is its conceptions of them from their living proproper province. But it is not always so. As saith the preacher, "I have seen servants upon horses, and Princes walking as mervants upon earth." Sad is the condition of the land when these things are so.

But enough of details. The ambitious, imperious, yet truckling Wolsey; the aristocratic Coriolanus; the voluptuous Cleopatra; the crafty, scheming, relentless Richard III.—half tiger and half fox ; the caustic, discainful Beatrice, and scarcely less sarcastic Benedick; the swaggering, ignorant, bourish, Dogberry; the blundering, idiotic Dromeos, whose simple wits may well have been confounded by the their varied moods and manifestations, bewildering and complex circumstances in they but serve to "hold the mirror up to which they were placed; the eloquent pure- nature," and demonstrate to us "what

yet ingenious Portia; the melancholy. moralizing Jaques, or the mirth-provoking Launce; the dignified, reserved, yet susceptible Olivia; the guzzling, jolly Sir Toby; the gossiping, loose-living Merry Wives; the ardent, adventurous Rosalind; the quaint, wise folly of Touchstone; the parasitic, insinuating, cowardly Parolles; the simple-hearted, yet royal-born Perdita; the rascally, peddling pick-pocket Autolycus, speak for themselves more eloquent ly than our pen can speak for them.

And here we would observe that in order to illustrate Shakspeare effectually the artist must have an extensive insight into, and appreciation of, human nature, and a knowledge of the garb which its various phases and manifestations assumein other words, he must be a true physiognomist. Nowhere, perhaps, is there afforded him a more extensive field for the employment of all the knowledge he may as an unreclaimed animal! What a warn- phrenological contour and facial expresportrait, or left us any guide by which to judge of their personal appearance, save their own mouths" do they demonstrate their characters, and we shall best form our totypes, of which the world is full. Let him do his utmost, however, the artist can never exhaust his subject, so endless are the modifications of which they are susceptible, in accordance with the various impressions that they will produce upon different minds, and upon different states of the same mind.

So they come and go, these wonderful representations, like visions of a dreamimaginary, yet real; startlingly vivid sometimes, yet with a shadowy vagueness; when we attempt to realize them as individual identities, their words and deeds, minded Isabella; the rafined, modest shadows we are -- what shadows we pursue."

STUDY OF CHARACTER BY PHOTOGRAPHS.

phrenological study, different heads represent fairly well certain sections of the head, but not the whole head. Our object now is to show how pictures should be taken if a thorough and careful study of the head is required. If a person were to apply for employment and wish to give the employer an opportunity for studying his mental make-up, he would need to send pictures that would give a full representation of his mental development.

If the reader will trouble to turn back to Fig. 16, he will see in Cardinal Manning's head almost a complete representation of all parts of it-the length from the ear forward showing a massiveness in his intellect, from the ear upward showing an ample moral power; but then the observer would be troubled as to how wide the head might be. It is really rather narrow above and about the ears, but this view does not fully show that.

In Fig. 62 we get a fine view of the whole face, the temperamental indication, the massive intellectual region, and the strong top-head of the late Silas Wright, Governor of the State of New York; but the back-head is not indicated.

In Fig. 69 we get an almost complete side-view of the great scientist-showing his full back-head, an ample forehead, and a faulty outline of the top-head.

Fig. 70, the late William Orton. In this we get the intellectual, the moral developments, and fairly the social; but the force of character is not represented.

In Fig. 71 a student of Phrenology would take in that head and be very well satisfied with the opportunity it affords for investigation. And if he were wanted for a teacher, there would be no hesitation in accepting him.

In Fig. 109 we have a remarkable development of practical talent, literary and scientific capability; he would also be skillful in affairs; an excellent teacher.

width of the head is not and cannot be siderable top head. But it is not at all

Though every head in this book is a represented by a single picture taken in that way.

In Fig. 179 we see the practical intellect and the wonderful force of character exhibited by the breadth of the side-head.

And so we may study fragmentarily through the book, and every head shows some portion well developed and as it is presented in nature. We now present a few portraits which are taken properly for phrenological study. When but a single picture can be procured for the purpose, if it be what is called a three-quarter viewsee Fig. 255-it will answer fairly well. It is a matter of importance, however, where a careful study of the head is required, that special effort be made to have pictures properly taken, so as to show every part of the head. In that case it requires two views ;-one should



Fig. 255. EDWARD BELLAMY.

be a square profile and the other a full front view.

Fig. 256 is taken with the hair nicely dressed for society, but it exhibits only the face and the line of the forehead, True, it shows the length of the head from the opening of the ear to the middle of the lower part of the forehead, and one who is skilled in the study of heads will see Fig. 118 shows the intellectual depart- that there is also a good development of ment, the moral, and the social; the Cautiousness, and that there must be consatisfactory for this purpose. The lady whom this picture represents had received



Fig. 256. Dressed for a Party.

groper instruction how to have pictures taken for the purpose of phrenological



Fig. 258. FRONT VIEW OF 257.

examination, and having, as set forth in a circular called the "Mirror of the Mind," followed the directions for the most advantageous taking of the pictures, the result is seen in Figs. 257 and 258.



Fig. 257. Side View of 256.

One would hardly suppose it was the same person as seen in Fig. 256; the hair

in Fig. 257 is laid smoothly to the head and twisted, and is held under the chin by the right hand. This shows a perfect outline of the head from the root of the nose to the back of the neck; then the length from the ear forward, its height from the opening of the ear upward, and its length backward show the form of the head. Then, in the front view. Fig. 258, we get an indication of the great width, fullness and roundness of the side-head. We get the shape of the top-head from the center line each way, and we see, also, the breadth and fullness of the side-head. the breadth of the fore-head, and especially the width between the eyes, which shows talent for cutting, fit_ ting, modeling, and mechanism. The broad side-head shows strength, power, force of character, prudence, policy, desire for property, taste for the beautiful, very fine mechanical talent, and good musical ability.

Without instruction as to what

gation, she might have sent the head in side-head! how wide between the ears!

full dress, as in Fig. 256.

In the next pair of pictures, Figs. 259 and 260, we have opportunity for careful study of every part of the head. The hair was very fine, and, being wet and laid closely to the head, the size and form of the head in every part is nicely exhibited. The fullness of the forehead shows practical talent, good memory of places and faces, and the height of the head from the opening of the ear shows steadfastness, integrity, dignity, reverence and sympathy. And, when we study the front view in Fig. 260, we see that the head is narrow. Compare that with Fig. 258, and the difference is marked. A man endowed with a narrow head like that should marry a woman with a broad head, so as to equalize the difference, and also that the children can have a right to inherit from one parent or the other all the force of character that is required. It should be observed that the parted side of the hair in the gentleman's picture, Fig. 259, is turned

deceived as to the form of that line of the head. Then the front view enables us to see the center line and also the width of the head; the study of the features 'u both pictures is also

favored. In Figs. 261 and 262 there is an interesting study; the side-view of Fig. 261 shows the length of the head, front and rear, a remarkable development of the lower part of the forehead, where the organs of perception are situated, and also shows the strength of the features, and the abundant development of the head backward of the ear in the social department. And one would naturally suppose from this picture that the head was long and thin, flattened on the sides, narrow; but, by having a front view taken at the same distance from the instrument, we have a companion piece to the first picture; and, being taken of the same size, it affords ample opportunity for judging

kind of pictures were desirable for investi- the developments. But what a broad



Fig. 259. TARRY PROPERLY.

next to the instrument; consequently, we how very broad between the eyes, and get right down to the scalp and cannot be how the head widens on the upper side-

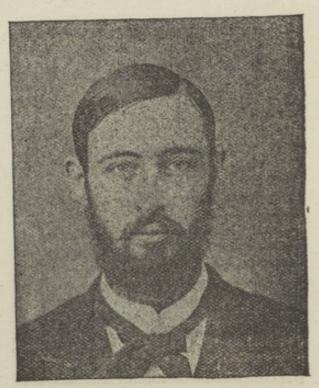


Fig. 260. TAKEN PROPERLY.

head at Ideality and Cautiousness! That is a scholarly head; a development like



Fig. 261. Side View, Taken Property.

that can master knowledge in books, 'u mechanism, in art, in literature or in business.



Fig. 26% FRONT, TAKEN PROPERLY.

Of course, when one is to study a head by pictures, he not only needs to know how large the head is in circumference, how much it measures from one ear to the other over the top of the head, but he wants to know, also, the size of the body,

the measurement of the chest under the arms and of the waist. He ought to know the height of a person and his weight; the n he can tell whether the head is too large for the

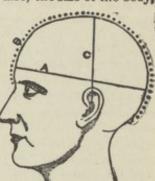


Fig. 263. MEASUREMENTS.

body and whether the head has a fair opportunity of being supported by an adequate development of body. There are some persons who have prodigious heads; men are to be met with whose head measures 24 inches and whose body weighs but 125 pounds, and such a man lacks bodily power and cannot support his brain properly. He can do something like keeping accounts, but he cannot go into the arena of traffic and business and meet on equal

terms men who are energetic and vigorous and strongly organized in body as well as in brain.

A man with a 24-inch head ought to weigh 185 pounds instead of 125. Besides that, to read heads and faces by photographs, the color of the hair and eyes and the complexion, which indicate temperament, should be understood. The study of temperaments, beginning with page 18 and closing with page 38, will give the reader an idea of the value of the study of temperament. And though, when a person looks at such a topic as "Heads and Faces, and How to Study Them," it seems a great work, but it is to be learned little by little, as we learn a language, as we learn a trade, as we learn the names and places in a neighborhood; and, after awhile, a man becomes intelligent in all these respects. So can a person with proper study become well versed in all that belongs to

earnestly recommended, and there is head-Distance from the opening of such pleasure and interest coupled with one ear to that of the other over the top acquiring this knowledge that persons who are at all adapted for it become more and more enamored with, and enthusiastic in, its prosecution.

It is but proper to say that the three portraits of the lady, Figs. 256, 257 and 258, were taken according to directions given in the "Mirror of the Mind," she residing more than three thousand miles from New York; and that we solicited permission to publish the portraits for this purpose without the name; and we have her letter consenting to this use of the portraits.

METHOD OF MEASURING.

Fig. 283 indicates the proper method of measuring heads for the purpose of study. A line is put around the center of the forehead and the most preminent part of the back-head, A; the line B is drawn from the root of the nose over the top co the head to the little bony point in the lower part of the back-head called the "occipital spine"; another measurement from the opening of one ear to that of the other over the top of the head :-such will give a good idea of the size and propertions of the head. A person who weighs 150 pounds should have a head about 22 inches in circumference; on the line A, and on the line B, the distance should be about 14 inches, and, on the line C, as much as 14 inches. That would be considered a well-proportioned head. If the head measured 28 inches on the line A, it should measure 141 on the line B, and from 141 to 15 on the line C. Sometimes these lines vary on account of the extra upward development.

Any person who may desire to submit portraits properly taken to one who is expert in the subject of temperament, as the basis of health and constitution, and in the development of brain, as indicative of character, talents and disposition, can aid in securing perfect work and desirable results by giving certain facts, as evidence of the peculiar constitution of those whose portraits are sent.

The circumference of the head in inches, distance from the root of the nose to

character reading. Its careful study is the bony point at the base of the backof the head, height of person, weight in common clothing, size of chest just under the arms, size of waist, color of hair, color of eyes, complexion, age of person, amount of education, occupation hitherto, health, married or single.

In the varied associations of life it is often of the first importance to ascertain the fitness of a person for a given line of business, or of culture, as well as for that intimate social relationship, nearer and more important than business.

A careful examination will often assure success and happiness in the formation of a secular or social alliance, or point out the danger and utter impropriety of either. Experiments are as dangerous in some cases as is the careless handling of firearms when it is not known that "they are loaded." In both cases wisdom is purchased at too dear a rate, and always comes too late.

It is true, and it may not be improves to assert it, that the writer has mach from photographs many thousands of ex tended criticisms of the character of persons, some of whom it was desired to employ in important situations. The portrait would be sent, perhaps two thousand miles, to ascertain what Phrenology would say of the original. Many hundreds of anxious parents have sent the portrait of a gentleman who was a candidate for the position of son-in-law. And if we were at liberty to publish the letters of thanks where our criticisms were adverse, or of congratulation where they were the harbinger of success and happiness, it

would be interesting reading.

These consultations are often made without our knowledge of the persons who make application, or of the names or residence of the originals of the portraits. In one case of this sort, the pictures of a man and a woman were presented by a third party, and the opinion requested was carefully printed out on the type-writer, and called for at a set time, with no name or residence involved. We advised the gentleman not to marry the lady, and gave the reasons why. We have his letter written a few months later from a distant State, recalling the circumstance, and saying that they had been married some years, and had been obliged to separate for the reasons mentioned, year before the pictures were sent to us-

EXPLANATION OF THE TABLE.

Opposite to the name of each organ or quality, the examiner will place a figure, a dash, or a dot, to indicate the subject's development in respect to that organ or quality. The printed figures in the square thus marked, refer to the pages in this work on which will be found a description of the organ in question. The organs are marked in seven degrees of development; 7, meaning Very Large, 6, Large, 5, Full, 4, Average, 3, Moderate, 2, Small, 1, Very Small.

When an organ is half way between two sizes, it is represented by two figures, as 5 to 6, or 3 to 4, etc., which is equivalent to $5\frac{1}{2}$ or $3\frac{1}{2}$. Those requiring cultivation may be marked /, those requiring restraint \. The sign +, plus, signifies about one third of a degree more, and —, minus, one third of a degree less.

Developments of	
Marked by	
Marked by	
Date	

	7 1	6		4	3	2	1		
conditions.	Very Large.	Large.	Pall	A moreone	Moder- ate.	Small-	Very Small.	Culti-	Re- stra in
Organic Quality	Page. 8	Page. 8	Page.	Page.	Page. 8	Page.	Page. 8		
Health	47 160	47 160	47 160	47 160	47 160	47 160	47 160		
Vital Temperament.	23	28	23	23	23	23	23		
Breathing Power	178	178	178	178	178	178	178		
Circulatory Power	172	172	179	172	172	172	172		
Digestive Power	172	172	179	172	172	172	172		1
Motive Temperament	22	22	22	22	20	22	22	-	
Mental Temperament	24	94	24	24	24	24	24		
Activity	80	30	80	30	30	30	80		
Excitability	31	81	81	81	81	31	81		
Size of Brain—inches.	47	47	47	47	47	47	47		
1. Amativeness	56 120	56 120	56 120	56 120	56 120	56 120	56 120		
A. Conjugality	57 122	57 122	57 122	57 122	57 122	57 122	57 122		
2. Parental Love	60 120	60 120	60 120	60 120	60 120	60 120	60 120		
8. Friendship	61 121	61 121	61 121	61 121	61 121	61 121	61 121		
4. Inhabitiveness	63 122	68 122	63 122	68 122	63 122	63 123	63 122		
5. Continuity	65 136	65 136	65 136	65 136	65 136	65 136	65 136		
E. Vitativeness	67 125	67 125	67 125	67 125	67 125	67 125	67 125		
6. Combativeness	67 125	67 125	67 125	67 125	67 125	67 125	67 125	100	
7. Destructiveness	69 127	69 127	69 127	69 127	69 127	69 127	69 127		

	7	6	5	4	Moder-	2	Very	Culti-	
CONDITIONS.	Very Large.	Large.	Full.	Average.	ate.	Small.	Small.	vate.	8 \$
Alimentiveness	70 129	70 129	70 129	70 129	70 129	70 129	70 129	-	
9. Acquisitiveness	71 128	71 128	71 128	71 128	71 128	71 128	71 128		
0. Secretiveness	73 127	73 127	73 127	73 127	73 127	73 127	73 127		
1. Cautiousness	74 130	74 130	74 130	74 130	74 130	130	74 130		
2. Approbativeness	76 132	76 132	76 132	132	132		76 132		
3. Self-Esteem	77 134	77 134	134	77 134		134	77 134		
4. Firmness	78 135	78 135	78 135		135	135	135		_
5. Conscientiousness	81 137	81 137	137		137	137	137		_
6. Hope	82	82 137	82 137	82 137	137	137	137		_
7. Spirituality	84	84 137	84 137	137	137	137	137		
8. Veneration	88			139	139	139	139		-
9. Benevolence	87 138	87	87			138	138		-
20. Constructiveness	90						139		_
21. Ideality	92	92		7 4 4			141		
B. Sublimity	- 04	94					1 141		
22. Imitation	-94	94	9				3 143	3	
23. Mirthfulness	96	96	9				4 164	1	
24. Individuality	Q	98					3 143	3	
25. Form	96	98	9				4 14	4	
26. Size	96	99	9				5 14	5	
27. Weight	100	100	10						
28. Color	10	1 101	10	1 10					
29. Orser	10	2 102	10	2 10	2 10				
30. Calculation	10	4 10	1 10	10	4 10	4 10	4 10		
31. Locality	10 14	5 108	5 10	5 10	5 10	5 10	5 10		
32. Eventuality	10	6 100	6 10	06 10	06 10	6 10	6 10		
33, Time	100	7 10	7 10	7 10	7 10	77 10	7 10		
24, Tune	10	8 100	8 10	8 10	08 10	08 10	8 10		
35. Language	3.0	9 10	9 10	09 10	09 10	10 10 10	9 10		
36. Causality	11	1 11	1 1	11 1:	11 1	The second second	1 11		
37. Comparison	13	4 11	4 1	14 1	4 1	_	4 11		
C. Human Nature	11	5 11	5 1	15 1		15 11	5 11		
D. Agreeableness	11		6 1	16 1	16 1	16 11	_		

FOR ADAPTATION IN MARRIAGE,
AND FOR TRADES AND PROFESSIONS, SEE "HEADS AND FACES."

0

When a person has a perfect balance of temperament and a harmonious development of all the mental faculties and dispositions, a companion should be chosen whose development is similar; but as this is very rarely found, each person should seek to unite with one who is properly contrasted so that the excess of one may be balanced and modified by a less development in the other.

The person for whom the foregoing Chart is marked should choose a companion having a constitution and mental qualities as indicated by the marking of this table.

9			9
Vital Temperament	Strong.	Medium.	Moderate.
Metive Temperament	Strong.	Medium.	Moderate.
Mental Temperament	Stro 15	Medium.	Moderate.
General Build or Form	Tall and Bony.	Medium.	Short & Smooth.
Size of Head	Large.	Medium.	. Moderate.
Weight	Heavy.	Medium.	Light.
Full and Plump	Decidedly.	Medium.	Moderately.
Complexion	Dark Brunette.	Medium.	Light, or Blonde.
Hair	Dark & Strong.	Medium.	Light and Fine.
Eyes	Dark.	Medium.	Light, or Blue,
Social and Domestic	Strong.	Medium.	Moderate.
Energy of Character	Strong.	Medium.	Moderate.
Self-Reliance	Strong.	Medium.	Moderate.
Prudence	Strong.	Medium.	Moderate.
Policy	Strong.	Medium.	Moderate.
Regard for Praise and Public Opinion	Strong.	Medium.	Moderate.
Economy and Love of Property	Strong.	Medium.	Moderate.
Cheerfulness and Self-Control	Strong.	Medium.	Moderate.
Ingenuity, Skill, and Taste	Strong.	Medium.	Moderate.
Practical Talent	Strong.	Medium.	Moderate.
Reasoning and Planning Talent	Strong.	Medium.	Moderate.
Conversational Power	Strong.	Medium.	Moderate.
Moral and Religious Development	Very Strong.	Full.	Medium.

TRADES AND PROFESSIONS.

Architect.	Commercial business,	Farmer.	Musician.	Railroading.
Artist.	Cashier.	Hardware.	Milliner.	Stone Cutter.
Accountant.	Canyasser.	Inventor.	Navigator.	Surgeon.
Agent	Contractor.	Insurance.	Orator.	Salesman.
Blacksmith.	Dentist.	Jeweller.	Printer.	Surveyor.
Bookseller.	Dressmaker.	Lawyer.	Preacher.	Stock Raiser.
Benker.	Engineer.	Mechanic.	Physican.	Statesman.
Corpenter.	Editor.	Manufacturer.	Phrenologist.	Teacher.

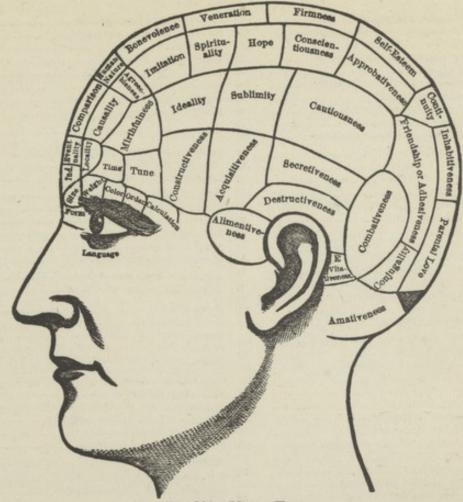


Fig. 264.-MODEL HEAD.

NAMES, NUMBERS AND LOCATION OF THE MENTAL ORGANS.

- 1. AMATIVENESS.—Connubial love, affection. A. CONJUGAL LOVE.—Union for life, pairing in-
- stinct. 2. PARENTAL LOVE.-Care of offspring, and all
- young.
- young.
 3. FRIENDSHIP.—Sociability, union of friends.
 4. INHABITIVENESS.—Love of home and country
 5. CONTINUITY.—Application, consecutiveness.
 E. VITATIVENESS.—Clinging to life, tenacity,
- endurance. 6. COMBATIVENESS .- Defence, courage, criti-
- cism.
- 7. DESTRUCTIVENESS. Executiveness, push, propelling power.
 8. ALIMENTIVENESS.—Appetite for food, etc.
 9. ACQUISITIVENESS.—Frugality, economy, to
- get. 10. Secretiveness.-Self-control, policy, reti-
- cence. 11. CAUTIOUSNESS. - Guardedness, care-taking,
- safety. 12. APPROBATIVENESS .- Love of applause and
- display.

 13. Self-Esterm.—Self-respect, dignity, autho-
- rity. 14. Firmness.—Stability, perseverance, steadfastness.
- CONSCIENTIOUSNESS .- Sense of right, justice 16. Hope.—Expectation, anticipation, perfect trust.
- SPIRITUALITY.—Intuition, prescience, faith, VENERATION.—Worship, adoration, defer-
- ence. 19. BENEVOLENCE.—Sympathy, kindness, mercy.

- 20. Constructiveness.-Ingenuity, invention, tools.
- 21. IDEALITY .- Taste, love of beauty, poetry and art.
- B. Sublimity.-Love of the grand, vast, magni-
- 22. IMITATION.—Copying, aptitude for mimicry.
 23. MIRTH.—Fun, wit, ridicule, facetiousness.
 24. INDIVIDUALITY.—Observation, curiosity to
- see.
- 25. FORM. Memory of shape, looks, persons, things.
 Siza.—Measurement of quantity by the eye.
- WEIGHT.—Control of motion, balancing. COLOR.—Discernment, and love of colors,
- hues, tints.
 29. ORDER.—Method, system, going by rule, arrangement.
- 30. CALCULATION.—Mental arithmetic, numbers, 31. LOCALITY.—Memory of place, position, travels, 32. EVENTUALITY.—Memory of facts, events,
- history.

 IME.—Telling when, time of day, dates,
- 33. Time.—Telling when, time of day, dates, punctuality
 34. Tuve.—Love of music, sense of harmony,
- singing.
 35. Language.—Expression by words, signs or
- 36. CAUSALITY.—Planning, thinking, philosophy 37. COMPARISON.—Analysis, inferring, illustra-
- tion. C. HUMAN NATURE. - Sagacity, perception of mo-
- D. SUAVITY.-Pleasantness, blandness, politeness.

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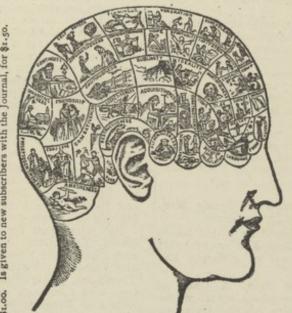
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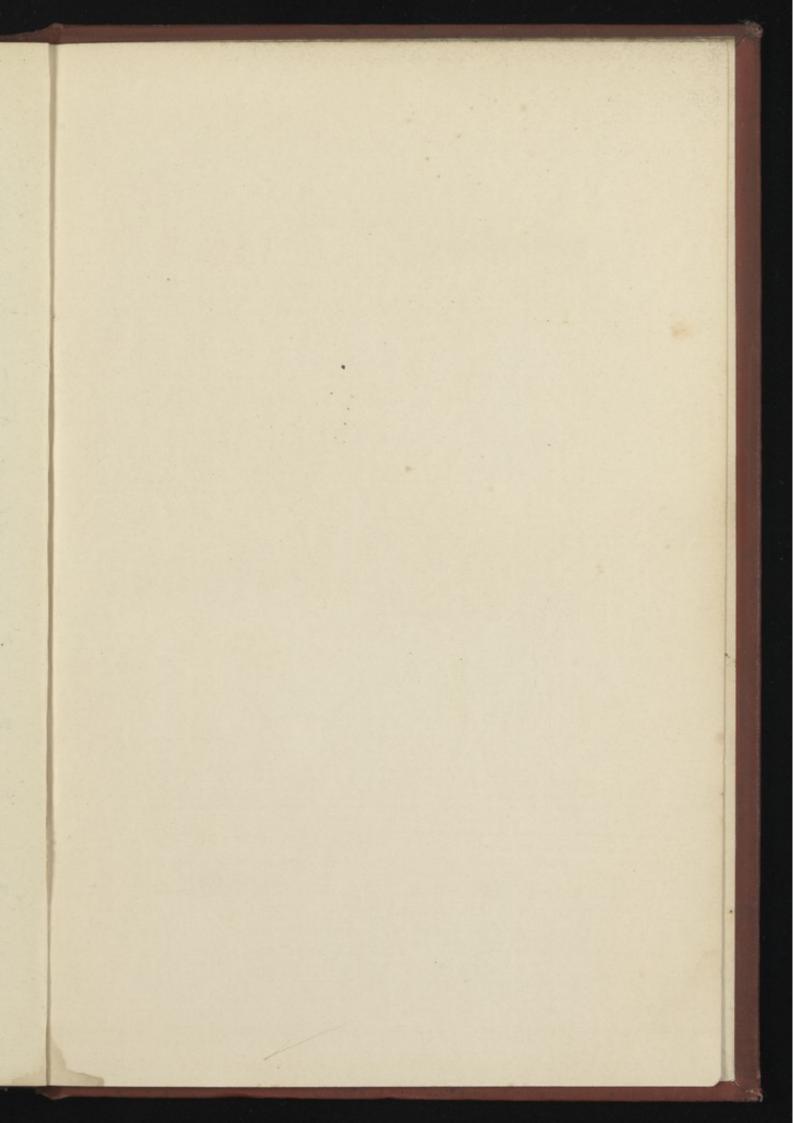
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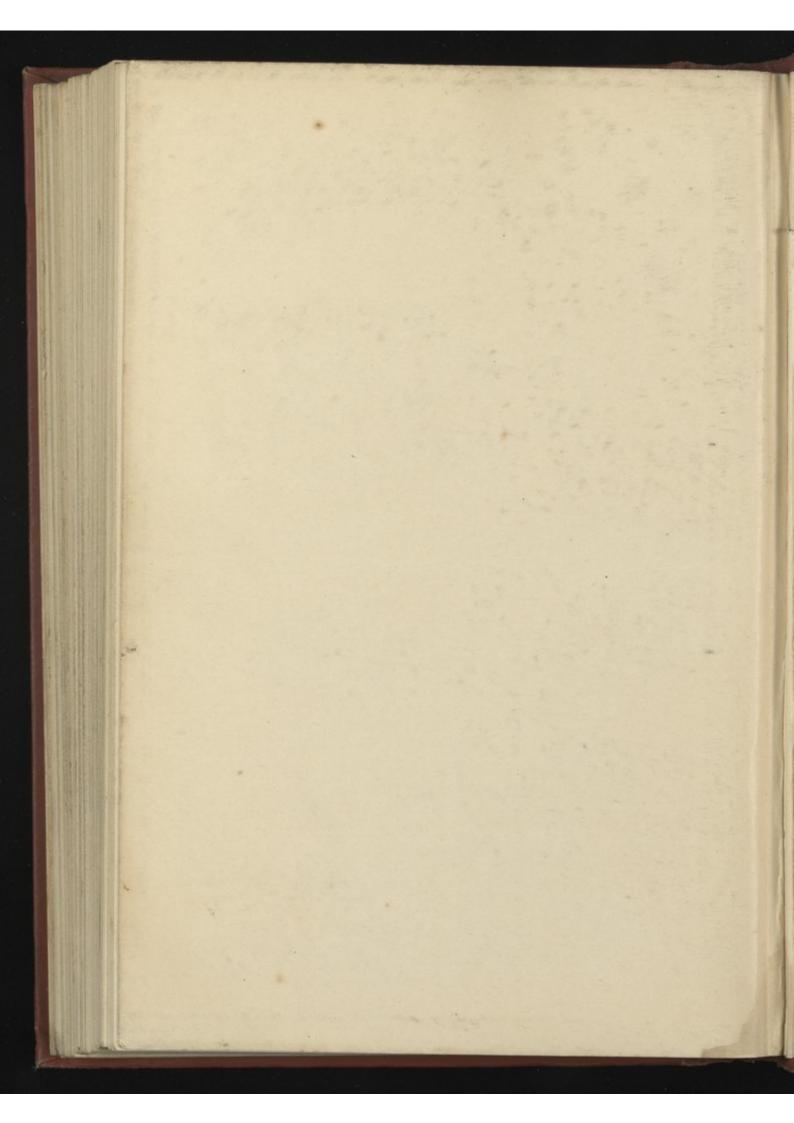
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